The following is a more detailed description of the experiment described on page 3 of the notebook submitted as part of Exhibit C. On page 3 of the notebook, a mixture of English and Dutch is used. Dutch words that are used in the notebook are shown here in parentheses for clarification. Also, the various steps of the method of Claim 1 are identified in brackets.

5.10^6 cells containing B and T lymphocytes (cellen: B + T) were mixed with 1 ml of the phage (faag) library containing approximately 10^{13} phage particles. [step(a)] The cells were allowed to incubate overnight at 4°C under slow rotation. [step(b)] The cells were spun down at 1200 rpm, resuspended in 50 ml PBS and spun for 10 minutes at 1200 rpm to remove unbound phages. The cells were subsequently resuspended in 50 µl anti-CD3 antibody conjugated to the fluorochrome FITC and 50 µl of anti-CD20 antibody conjugated to the fluorochrome PE. The mixture was incubated for 30 minutes (30') on ice (ijs), washed twice as before (2 x wassen als boven), resuspended (opnemen) in 1 ml PBS containing foetal calf serum.

The mixture was subsequently subjected to flow cytometry and cell sorting (FACSSORT). [step (c)] Cells from the sorter are collected (opgevanger) in 100 µl PBS. Collected are: B cells, T cells, eosinophils and 'all cells' (B, T, Eo's, Alles). The number of cells sorted is 1, 10, 100, 1,000, 10,000. The phages are eluted from the cells by adding 150 µl of 76 mM citric acid (citroenzuur) mixed (mengen) and incubated for 5 munutes at room temperature (KT). [step (d)] 200 µl of 1 M Tris was added (gepipetteerd) and 1 ml of 2TY medium was then added. 2 ml of bacterial culture in log phase of growth (logcultuur) with an optical density of 600 was added. The mixture was incubated for 30 minutes at 370°C. The mixture was spun for 20 minutes at 2000 rpm and the

supernatant was almost completely removed (sup bina wegzulgen). The mixture was then plated out (uitplaten).

The results are shown in Table 1 on page 4. Table 2 shows the results of a second experiment. Table 1 shows the number of cells that were sorted in the top row and the type of cell that was sorted in the first column. The numbers represent the number of bacterial colonies obtained in each experiment. The numbers from Table 1 can also be found in the article by deKruif et al., *Proc Natl Acad Sci U S A* 92:3938-42 (1995).

120430_1.DOC

[redacted]

Staining of lysed fetal bone marrow (18wks) with single chain phage antibodies. Phages have been cleaved off. E910 is an Ab which recognizes the c-myc tag on the single chain Ab. mTg2 is a negative control. ~ 4×10^5 cells/test .5% PT Acquired [redacted]

1 ✓	1.	Unstained										
2/3	2.	mTg2	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
4/5	3.	"	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
6/7	4.	"	"	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
8/9	5.	"	"	"		+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
10/11	6.	dr-1	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
12/13	7.	dr-8	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
14/15	8.	dr+1	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
16/17	9.	dr+6	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
18/19	10.	dr-5	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
20/21	11.	dr-2	9E10	GαM PE	NMS	+	CD34 FITC	+	CD38 APC	+	HLA-DR PerCP	
22/23	12.	mTg2	9E10	GαM PE	NMS	+	sIgM FITC	+	CD19 APC	+	CD34 PerCP	←
24/25	13.	"	9E10	GαM PE	NMS	+	sIgM FITC	+	CD19 APC	+	CD34 PerCP	
26/27	14.	"	"	GαM PE	NMS	+	sIgM FITC	+	CD19 APC	+	CD34 PerCP	
28/29	15.	"	"	"		+	sIgM FITC	+	CD19 APC	+	CD34 PerCP	
30/31	16.	B9	9E10	GαM PE	NMS	+	sIgM FITC	+	CD19 APC	+	CD34 PerCP	
32/33	17.	B28	9E10	GαM PE	NMS	+	sIgM FITC	+	CD19 APC	+	CD34 PerCP	

34. CD38 PE

34 FITC

sIgM ⓑ | strepav PerCP

✓ F

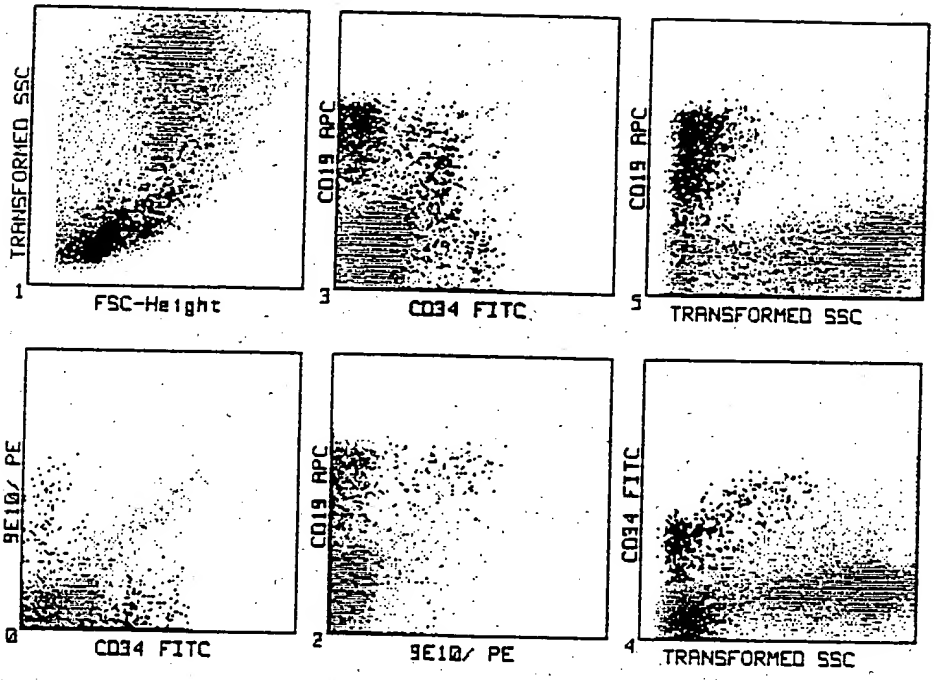
✓ PE

✓ PerCP

✓ APC

PAINT-A-GATE (TM) Mode ++ File: #12:MN09014024
%= 3.4 2.3 11.3 0.0 0.1 5.4 1.1 78.4
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E A ^!

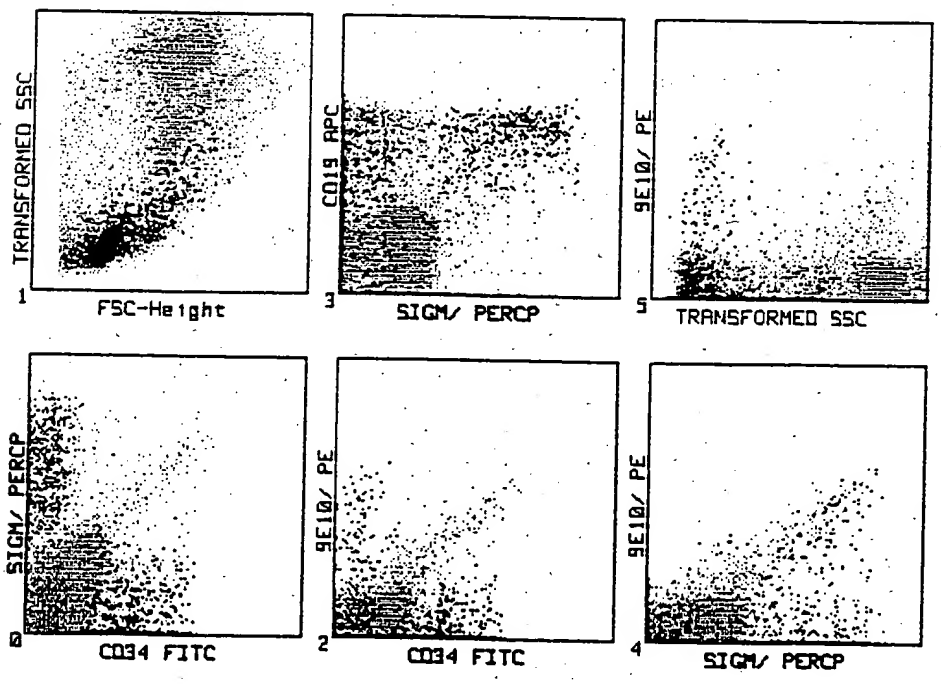
Dots = 10000
250 0



s

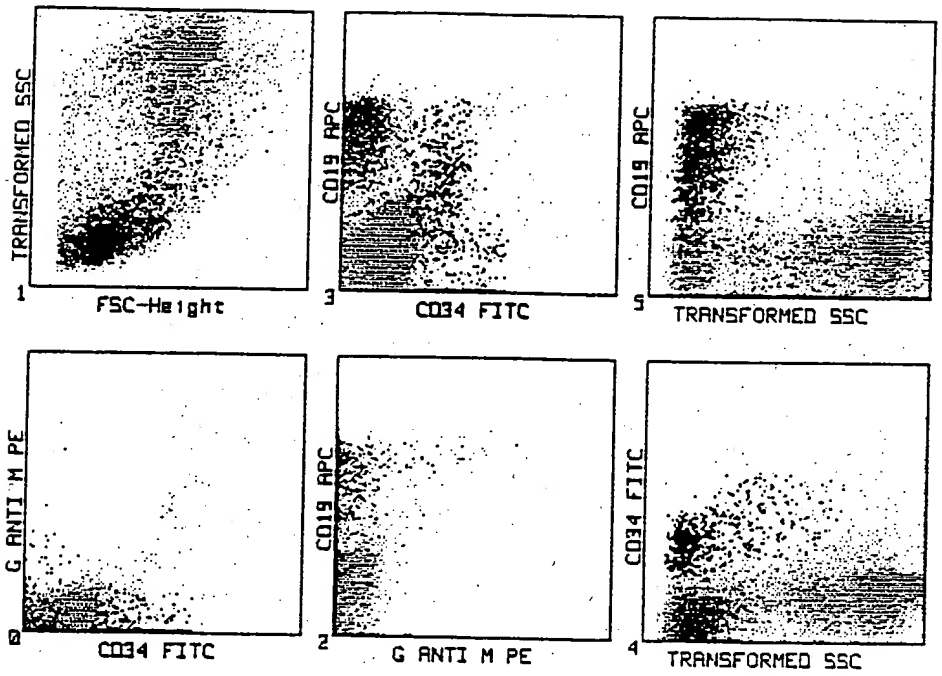
PAINT-A-GATE (TM) Mode ++ File: #12:MN09014024
%= 3.4 2.3 11.3 0.0 0.1 5.4 1.1 78.4
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E A ^!

Dots = 10000
250 0



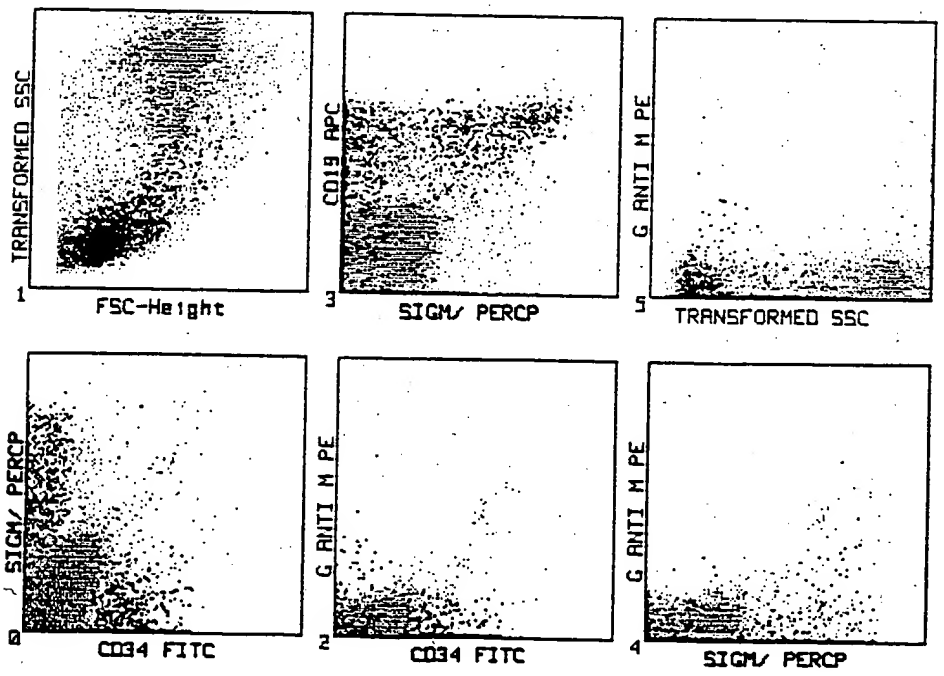
s

PAINT-A-GATE (TM) Mode ++ File: #12:MN09014026 Dots = 10000
%= 3.7 2.7 13.3 0.0 0.0 7.2 0.3 72.8 250 0
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E ^



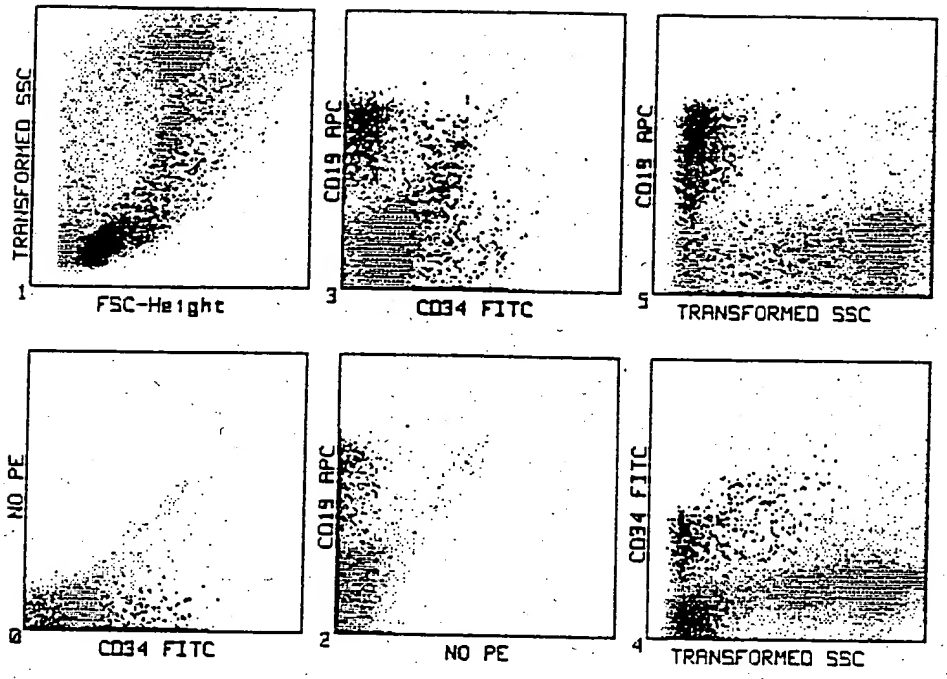
S

PAINT-A-GATE (TM) Mode ++ File: #12:MN09014026 Dots = 10000
%= 3.7 2.7 13.3 0.0 0.0 7.2 0.3 72.8 250 128
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E ^



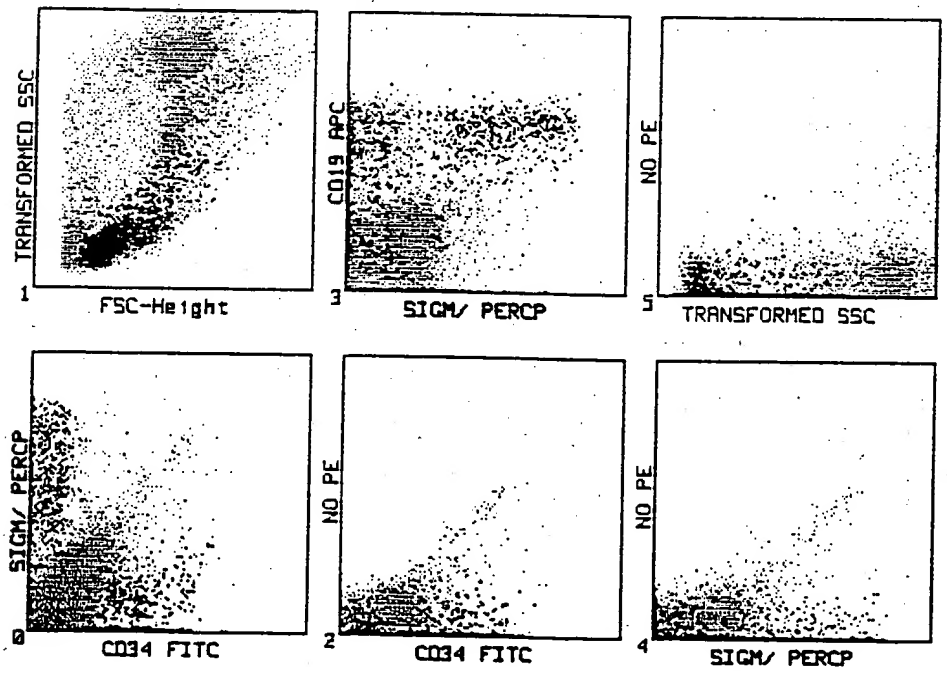
S

PAINT-A-GATE (TM) Mode ↔ File: #12:MN09014028 Dots = 10000
%= 2.8 2.7 11.2 0.0 0.0 6.3 0.1 78.9 250 0
RGYBVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E A ^!



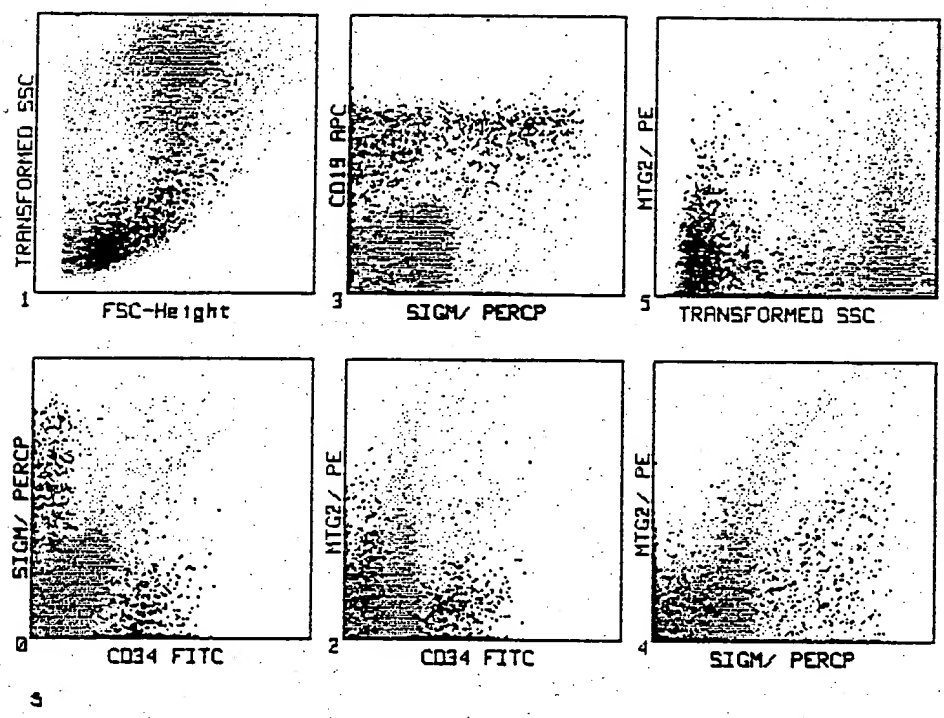
S

PAINT-A-GATE (TM) Mode ↔ File: #12:MN09014028 Dots = 10000
%= 2.8 2.7 11.2 0.0 0.0 6.3 0.1 78.9 250 0
RGYBVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E A ^!

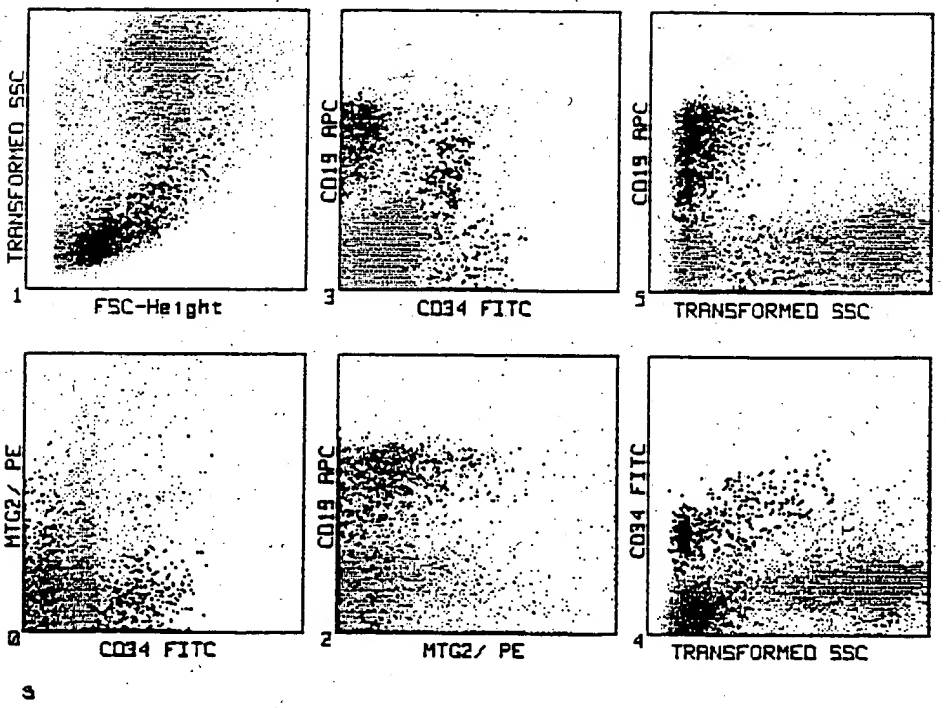


S

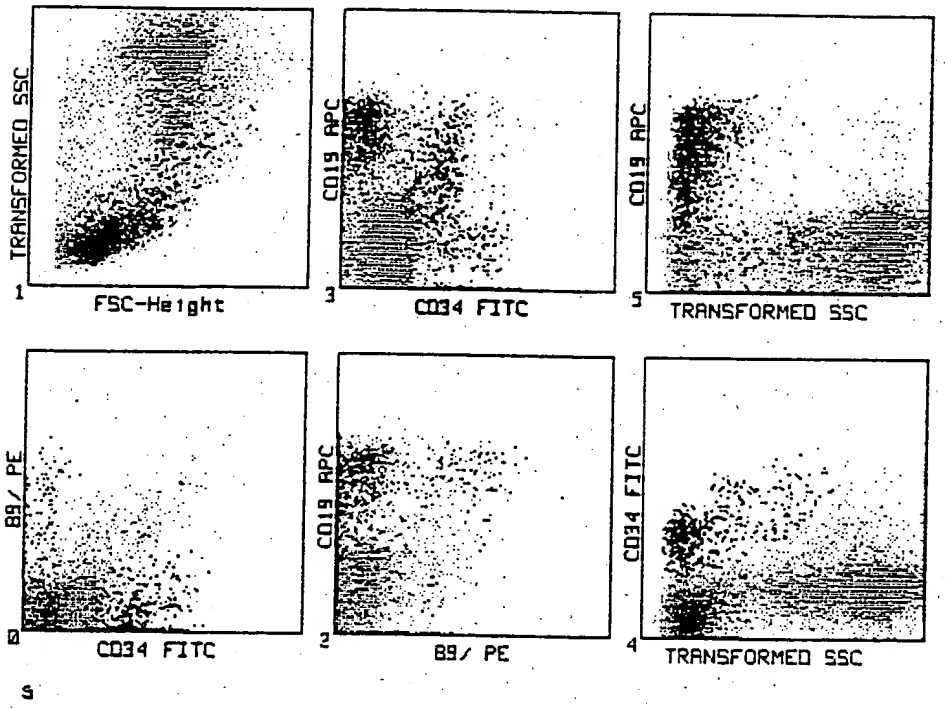
PAINT-A-GATE (TM) Mode ++ File: #12:MN09014022 Dots = 10000
%= 3.3 2.4 13.1 0.1 1.5 4.8 0.4 74.5 122 250
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E ^!! !



PAINT-A-GATE (TM) Mode ++ File: #12:MN09014022 Dots = 10000
%= 3.3 2.4 13.1 0.1 1.5 4.8 0.4 74.5 250 0
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s (E ^!! !

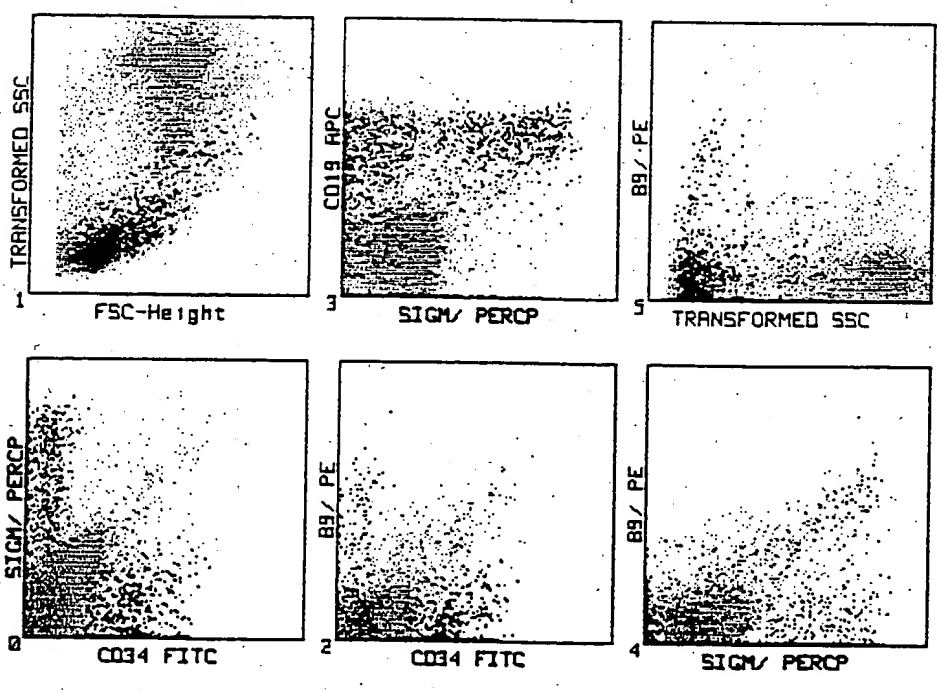


PAINT-A-GATE (TM) Mode ++ File: #12:MN09014030 Dots = 10000
%= 3.4 1.9 12.7 0.2 0.0 5.2 1.2 75.4 250 0
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'~s [E A ^ !



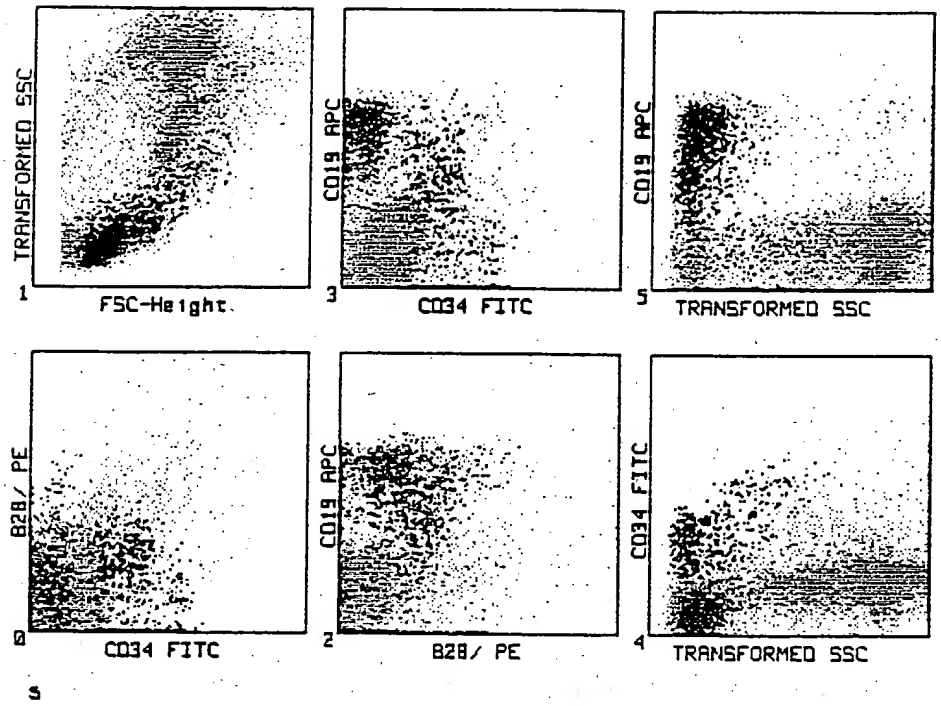
S

PAINT-A-GATE (TM) Mode ++ File: #12:MN09014030 Dots = 10000
%= 3.4 1.9 12.7 0.2 0.0 5.2 1.2 75.4 250 128
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'~s [E A ^ !



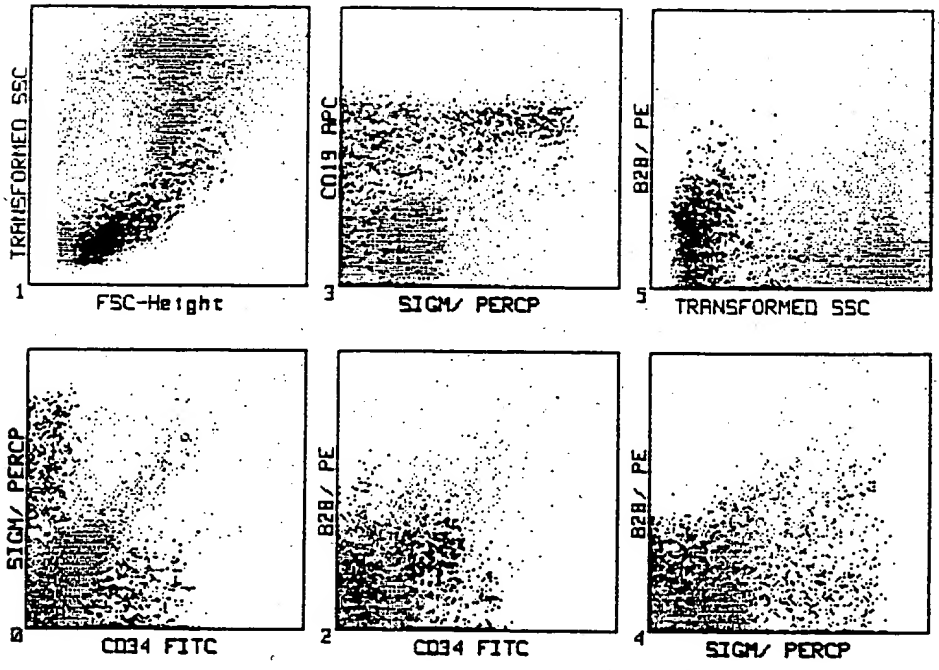
S

PAINT-A-GATE (TM) Mode ▬ File: #12:MN09014032 Dots = 10000
%= 3.1 2.2 11.7 0.0 0.0 5.5 0.6 [illegible] 250 0
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s [E [illegible]

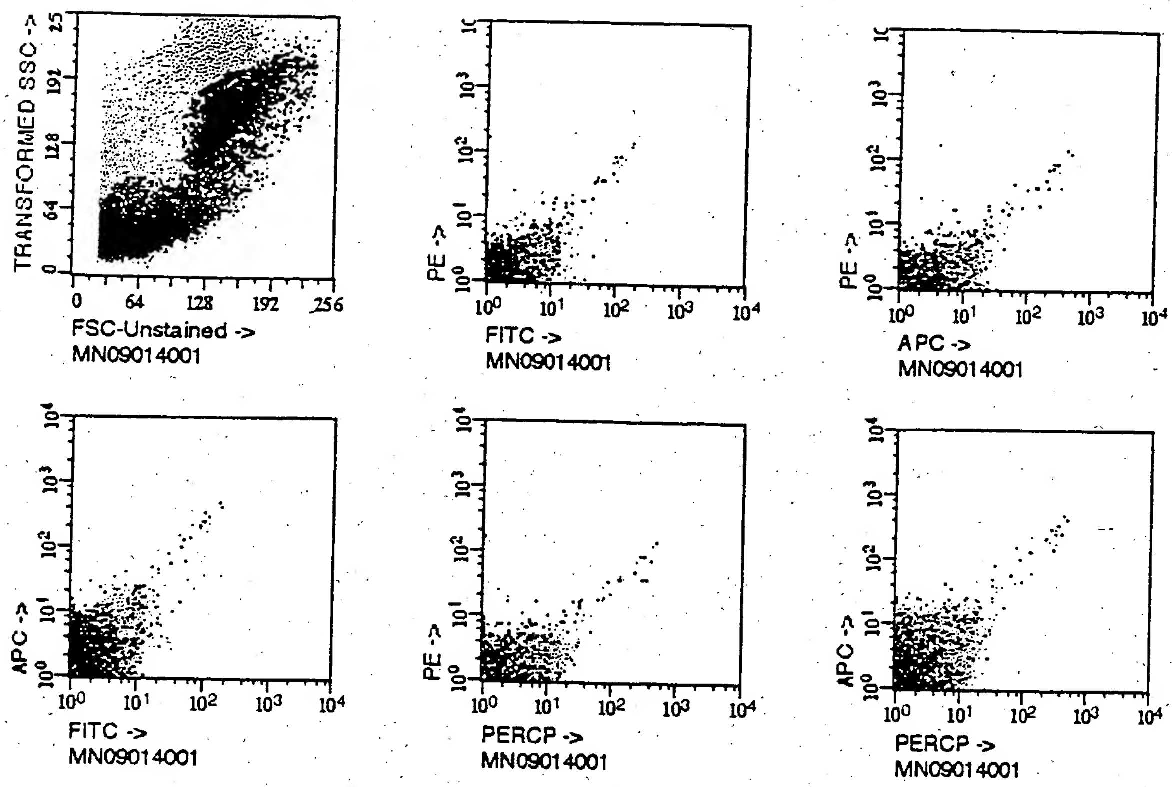


S

PAINT-A-GATE (TM) Mode ▬ File: #12:MN09014032 Dots = 10000
%= 3.1 2.2 11.7 0.0 0.0 5.5 0.6 [illegible] 250 0
RG/BVCWO gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s [E [illegible]



S



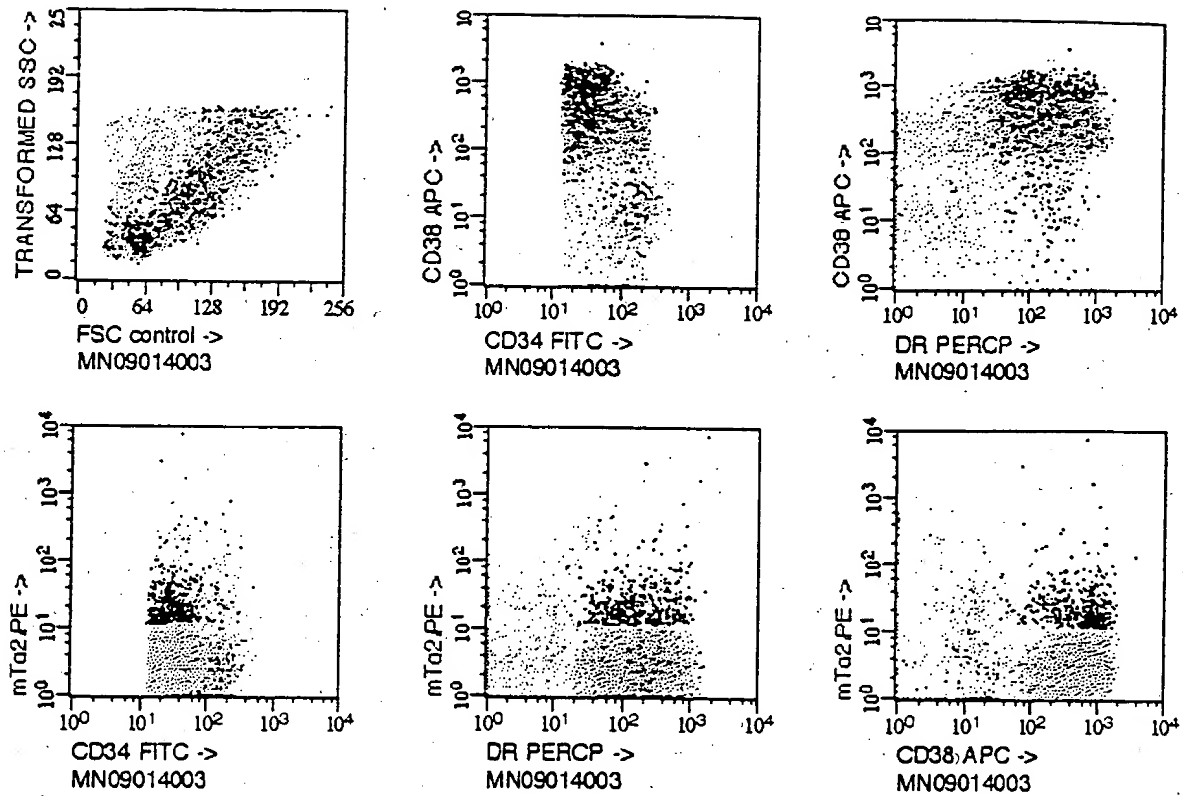
* *

Method : MN09014set1
File : MN09014001
Sample ID :
Acquired : [redacted]

* *

Total Events 20000
Total Gated Events 20000

	Green Events		
% of Gated Events	44.72		
Parameter	Mean	SD	CV
PE	3.00	7.93	264.46
	Blue Events		
% of Gated Events	16.28		
Parameter	Mean	SD	CV
PE	7.56	14.35	189.77
	Yellow Events		
% of Gated Events	32.87		
Parameter	Mean	SD	CV
PE	8.89	14.02	157.70
	Unclassified Events		
% of Gated Events	6.12		
Parameter	Mean	SD	CV
PE	10.10	21.46	212.42



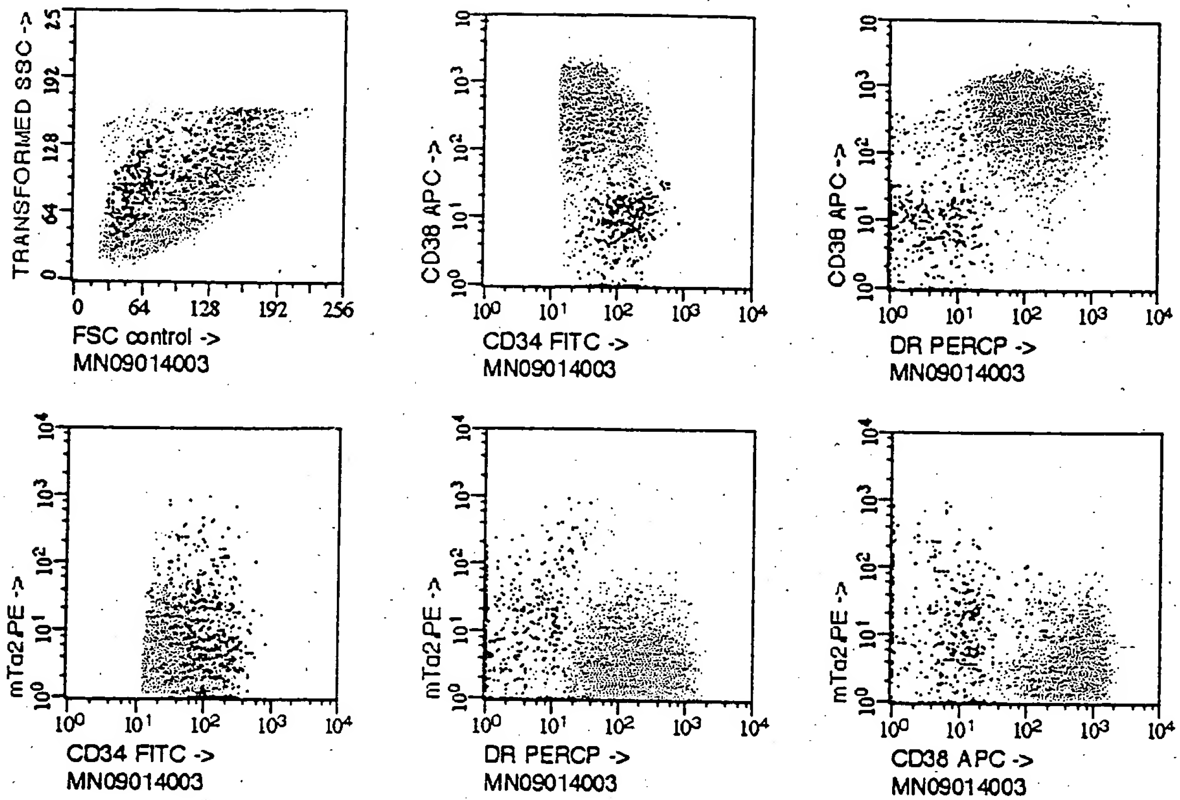
* *

Method : MN09014set1
File : MN09014003
Sample ID : [redacted]
Acquired :

* *

Total Events 10037
Total Gated Events 10037

	mTq2-/CD38-/DR+		
% of Gated Events	1.01		
Parameter	Mean	SD	CV
mTq2/PE	12.49	16.97	135.86
	mTq2+/CD38-/DR+		
% of Gated Events	0.08		
Parameter	Mean	SD	CV
mTq2/PE	125.33	34.19	27.28
	mTq2+/CD38+/DR+		
% of Gated Events	4.02		
Parameter	Mean	SD	CV
mTq2/PE	89.97	22.17	24.64
	mTq2-/CD38+/DR+		
% of Gated Events	79.77		
Parameter	Mean	SD	CV
mTq2/PE	15.92	19.05	119.62
	Unclassified Events		
% of Gated Events	15.09		
Parameter	Mean	SD	CV
mTq2/PE	42.90	50.20	117.00



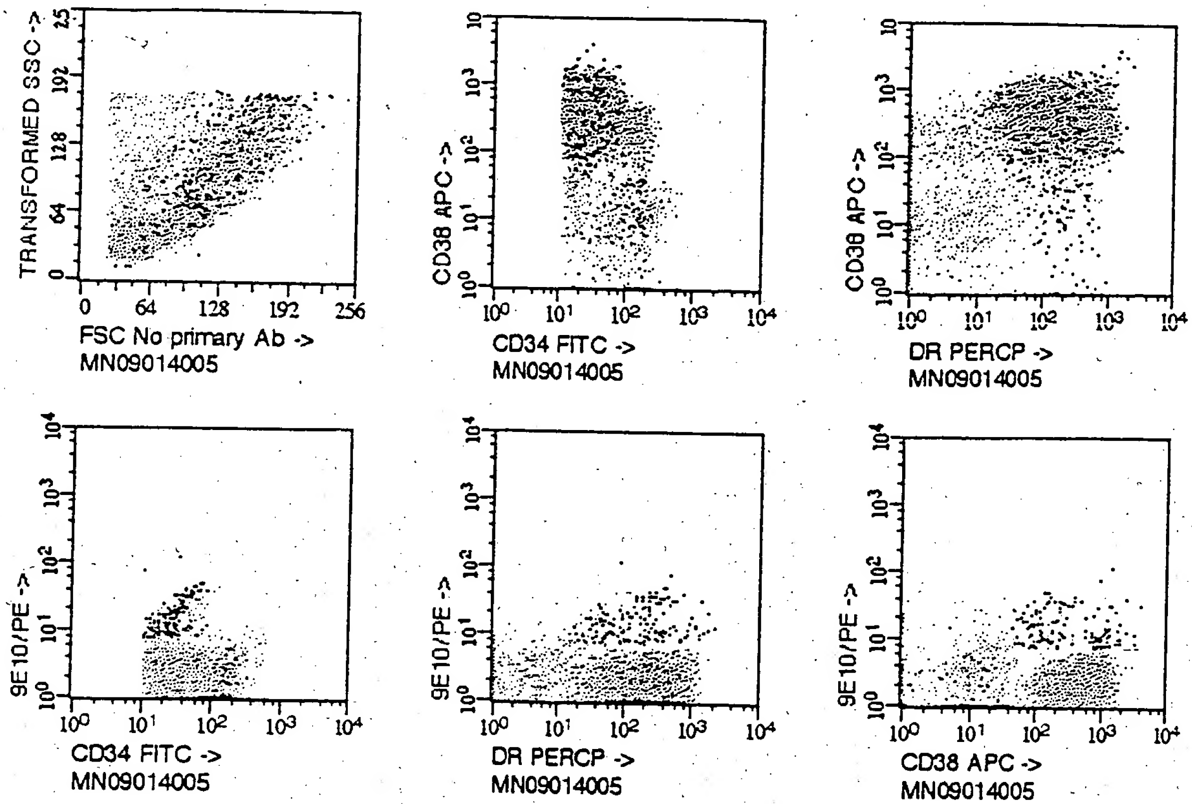
* *

Method : MN09014set1
File : MN09014003
Sample ID :
Acquired : [redacted]

* *

Total Events	10037
Total Gated Events	10037

	mTq2-/CD38-/DR-(red)		
% of Gated Events	2.26		
Parameter	Mean	SD	CV
mTg2/PE	27.81	20.15	72.43
	mTq2+/CD38-/DR-(green)		
% of Gated Events	2.31		
Parameter	Mean	SD	CV
mTq2/PE	100.15	31.42	31.37
	mTq2+/CD38+/DR-(blue)		
% of Gated Events	0.25		
Parameter	Mean	SD	CV
mTq2/PE	85.84	23.82	27.74
	mTq2-/CD38+/DR-(yellow)		
% of Gated Events	5.24		
Parameter	Mean	SD	CV
mTg2/PE	11.06	15.88	143.63
	Unclassified Events		
% of Gated Events	89.92		
Parameter	Mean	SD	CV
mTq2/PE	21.45	29.44	137.22



* *

Method : MN09014set1
File : MN09014005
Sample ID :
Acquired : [redacted]

* *

Total Events 10060
Total Gated Events 10060

PE-/CD38-/DR+

% of Gated Events 1.01

Parameter	Mean	SD	CV
9E10/ PE	7.67	13.58	176.93

PE+/CD38-/DR+

% of Gated Events 0.00

Parameter	Mean	SD	CV
9E10/ PE	75.00	--	--

PE+/CD38+/DR+

% of Gated Events 1.36

Parameter	Mean	SD	CV
9E10/ PE	75.70	15.50	20.48

PE-/CD38+/DR+

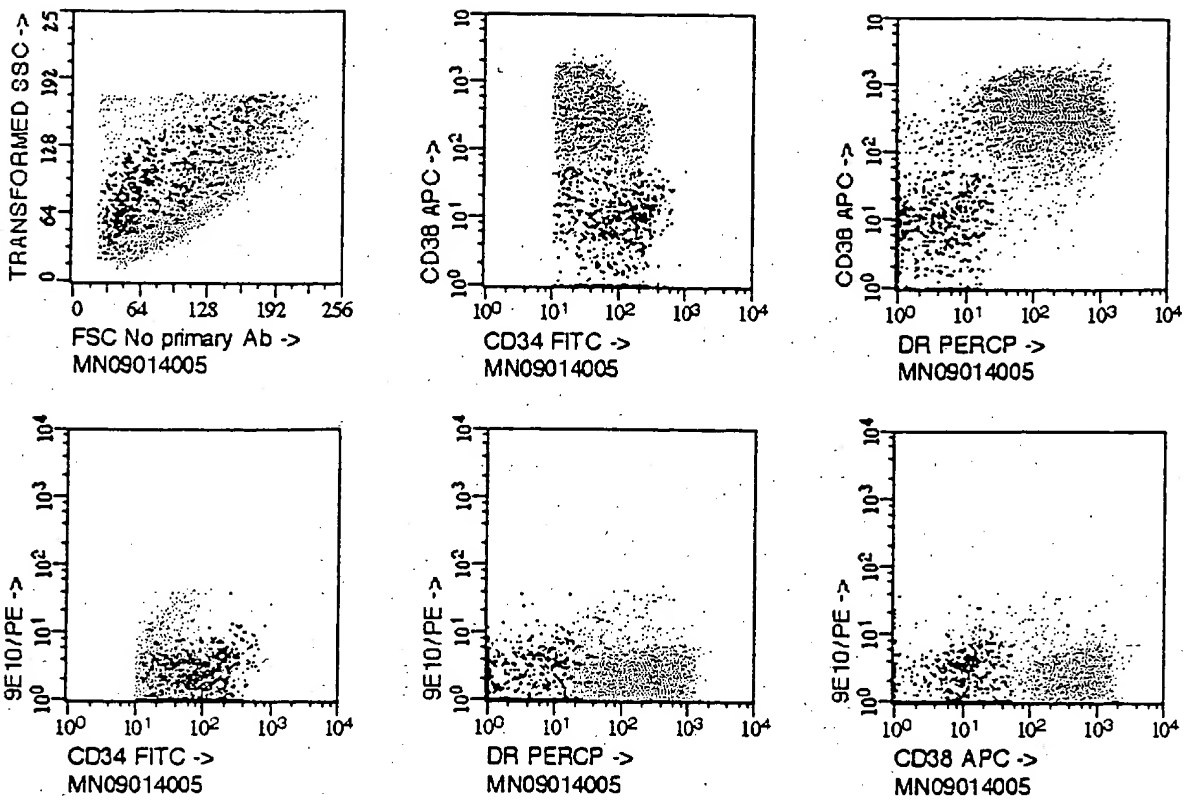
% of Gated Events 81.90

Parameter	Mean	SD	CV
9E10/ PE	8.68	13.46	154.92

Unclassified Events

% of Gated Events 15.70

Parameter	Mean	SD	CV
9E10/ PE	19.22	25.06	130.33



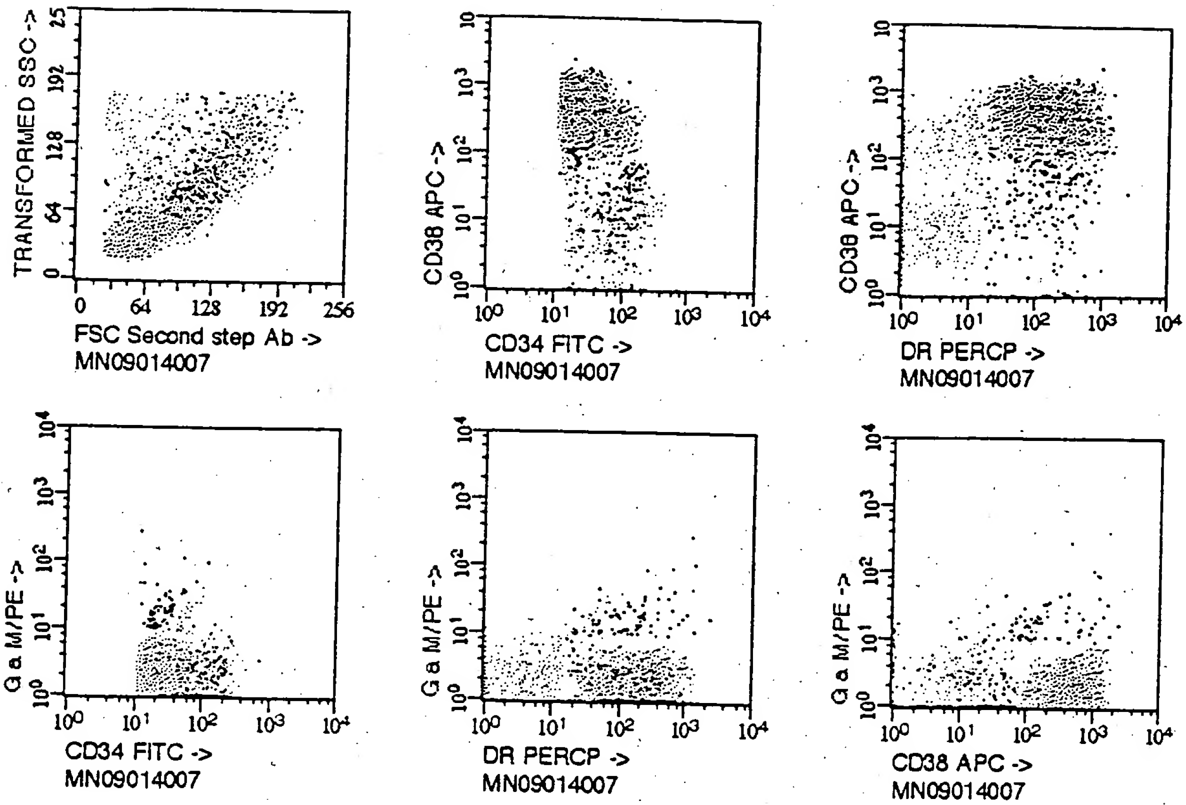
* *

Method : MN09014set1
File : MN09014005
Sample ID :
Acquired : [redacted]

* *

Total Events 10060
Total Gated Events 10060

	PE-/CD38-/DR-(red)		
% of Gated Events	6.46		
Parameter	Mean	SD	CV
9E10/ PE	16.46	18.30	111.16
	PE+/CD38-/DR-(green)		
% of Gated Events	0.19		
Parameter	Mean	SD	CV
9E10/ PE	72.10	12.80	17.76
	PE+/CD38+/DR-(blue)		
% of Gated Events	0.00		
Parameter	Mean	SD	CV
9E10/ PE	72.00	—	--
	PE-/CD38+/DR-(yellow)		
% of Gated Events	6.49		
Parameter	Mean	SD	CV
9E10/ PE	6.55	11.93	181.99
	Unclassified Events		
% of Gated Events	86.83		
Parameter	Mean	SD	CV
9E10/ PE	11.07	18.03	162.93



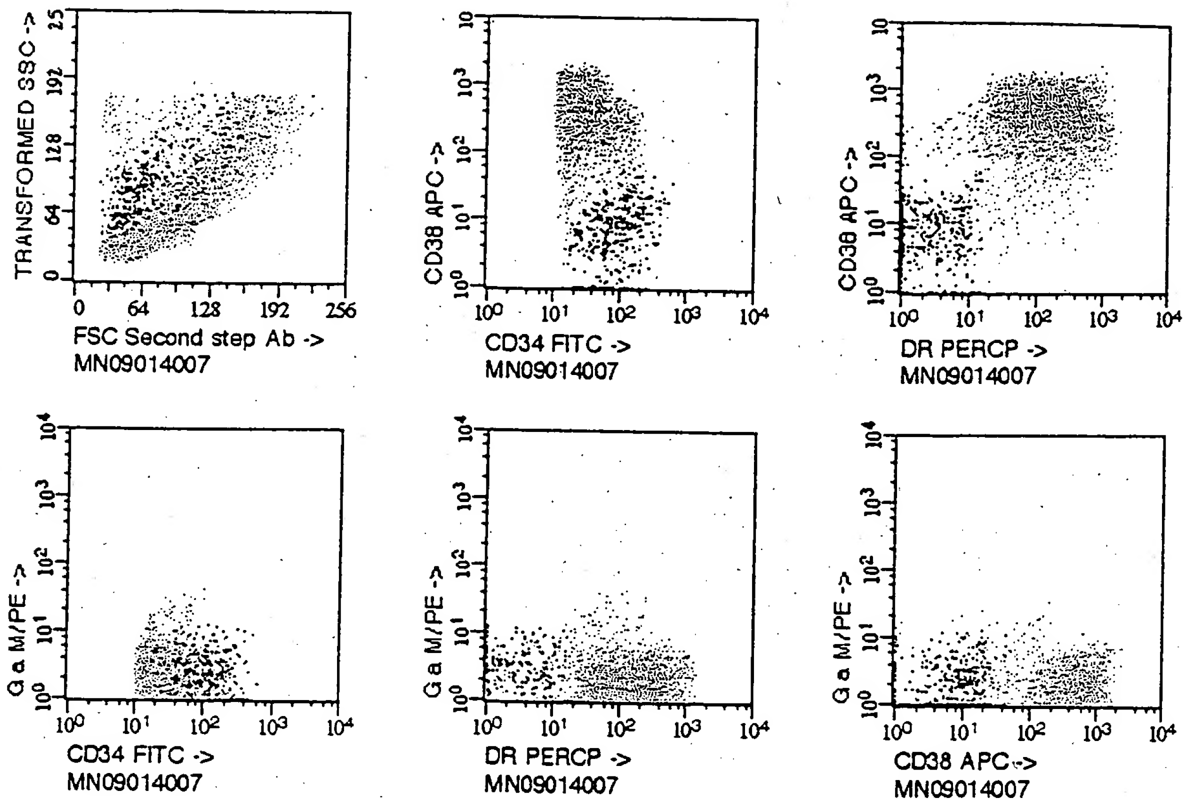
* *

Method : MN09014set1
File : MN09014007
Sample ID :
Acquired : [redacted]

* *

Total Events 6029
Total Gated Events 6029

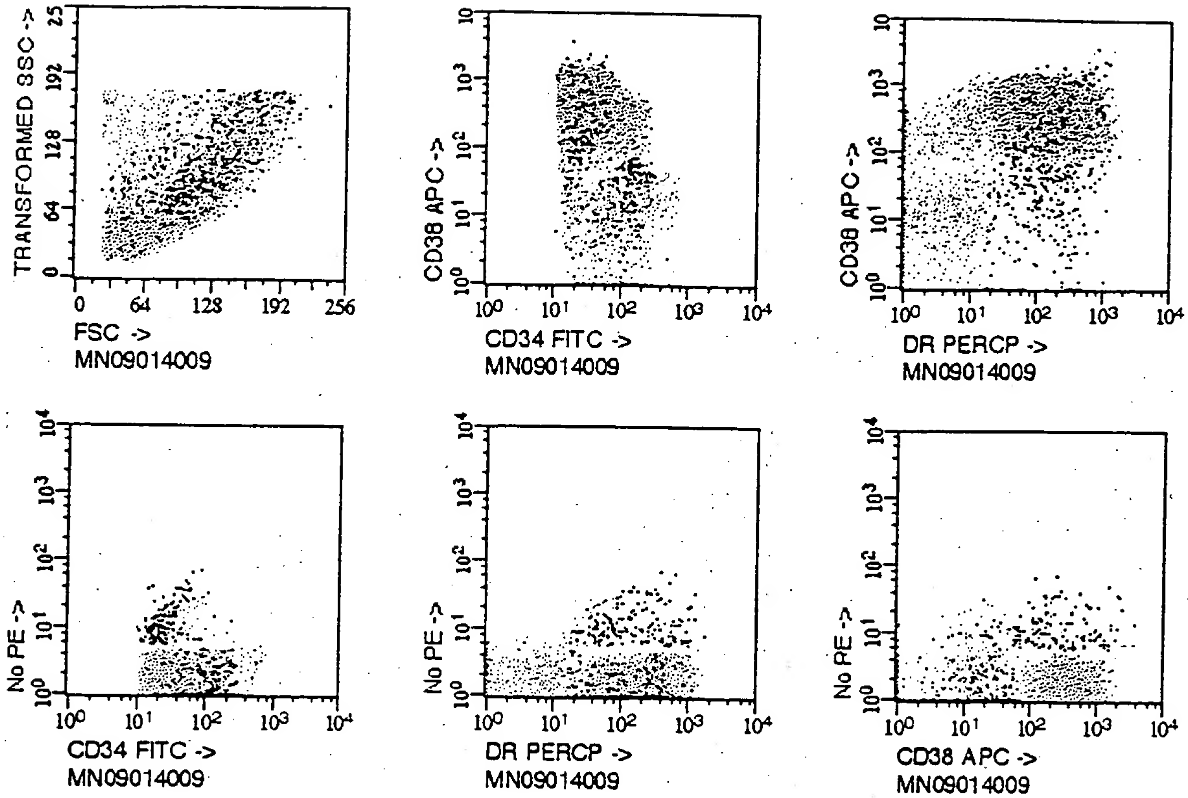
	PE-/CD38-/DR+(red)		
% of Gated Events	2.70		
Parameter	Mean	SD	CV
G a M/ PE	11.44	15.56	136.04
	PE+/CD38-/DR+(green)		
% of Gated Events	0.06		
Parameter	Mean	SD	CV
G a M/ PE	73.50	6.95	9.45
	PE+/CD38+/DR+(blue)		
% of Gated Events	1.19		
Parameter	Mean	SD	CV
G a M/ PE	81.68	17.97	22.01
	PE-/CD38+/DR+(yellow)		
% of Gated Events	80.26		
Parameter	Mean	SD	CV
G a M/ PE	9.33	14.42	154.46
	Unclassified Events		
% of Gated Events	15.77		
Parameter	Mean	SD	CV
G a M/ PE	20.12	25.44	126.43




```
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
Method      : MN09014set1
File        : MN09014007
Sample ID   :
Acquired    : [redacted]
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

Total Events                6029
Total Gated Events          6029

                            PE-/CD38-/DR-(red)
% of Gated Events             6.48
Parameter                     Mean        SD        CV
  G a M/ PE                  18.25       19.83    108.64
                            PE+/CD38-/DR-(green)
% of Gated Events              0.
Parameter                     Mean        SD        CV
  G a M/ PE                   --          --        --
                            PE+/CD38+/DR-(blue)
% of Gated Events              0.
Parameter                     Mean        SD        CV
  G a M/ PE                   --          --        --
                            PE-/CD38+/DR(yellow)
% of Gated Events             5.52
Parameter                     Mean        SD        CV
  G a M/ PE                   7.47       13.05    174.66
                            Unclassified Events
% of Gated Events            87.99
Parameter                     Mean        SD        CV
  G a M/ PE                  11.82       18.99    160.61
```



* *

Method : MN09014set1
File : MN09014009
Sample ID :
Acquired : [redacted]

* *

Total Events	10054
Total Gated Events	10054

PE-/CD38-/DR+(red)

% of Gated Events	2.22		
Parameter	Mean	SD	CV
No PE	10.34	14.05	135.83

PE+/CD38-/DR+(green)

% of Gated Events	0.04		
Parameter	Mean	SD	CV
No PE	69.40	16.56	23.86

PE+/CD38+/DR+(blue)

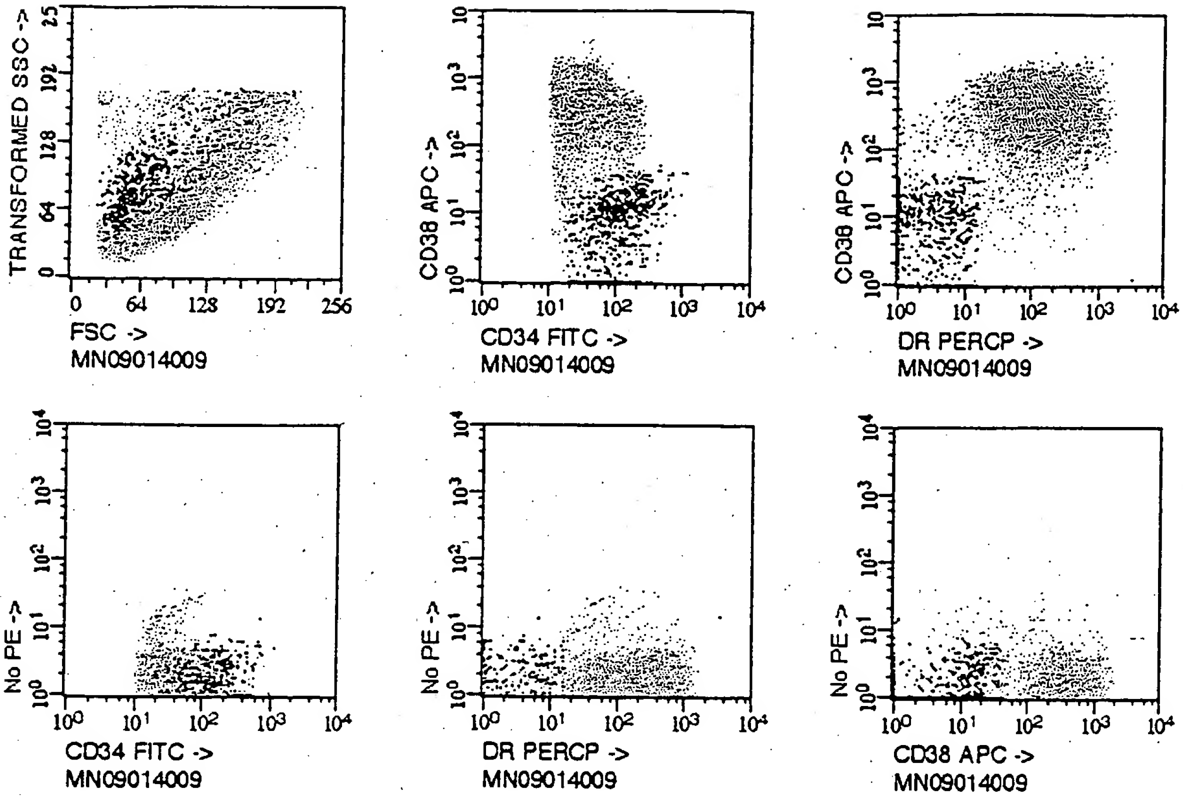
% of Gated Events	1.59		
Parameter	Mean	SD	CV
No PE	68.53	15.79	23.04

PE-/CD38+/DR+(yellow)

% of Gated Events	79.73		
Parameter	Mean	SD	CV
No PE	4.99	10.13	203.02

Unclassified Events

% of Gated Events	16.39		
Parameter	Mean	SD	CV
No PE	11.99	20.75	173.00



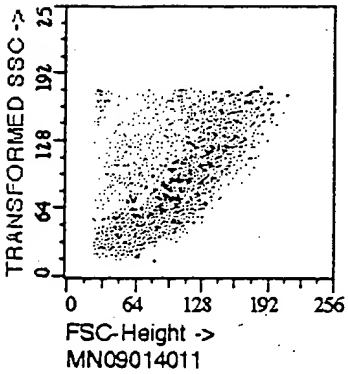
* *

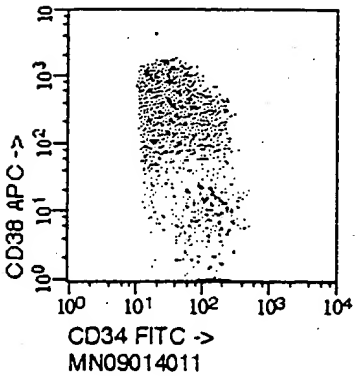
Method : MN09014set1
File : MN09014009
Sample ID :
Acquired : [redacted]

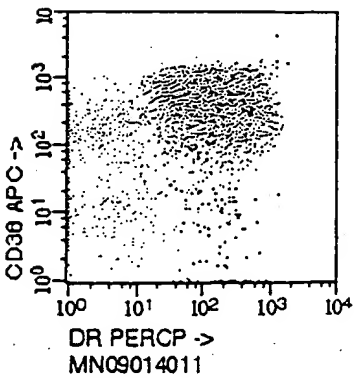
* *

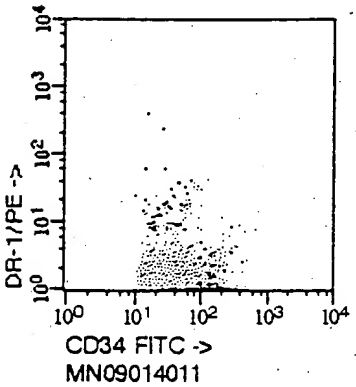
Total Events	10054
Total Gated Events	10054

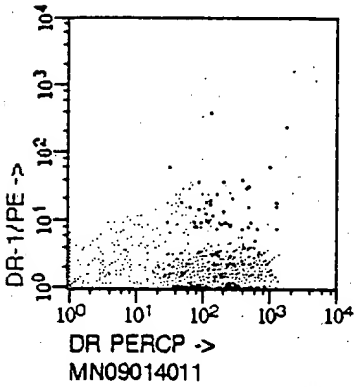
	PE-/CD38-/DR-(red)		
% of Gated Events	6.70		
Parameter	Mean	SD	CV
No PE	9.17	14.80	161.25
	PE+/CD38-/DR-(green)		
% of Gated Events	0.		
Parameter	Mean	SD	CV
No PE	--	--	--
	PE+/CD38+/DR-(blue)		
% of Gated Events	0.		
Parameter	Mean	SD	CV
No PE	--	--	--
	PE-/CD38+/DR-(yellow)		
% of Gated Events	6.00		
Parameter	Mean	SD	CV
No PE	5.90	11.33	192.12
	Unclassified Events		
% of Gated Events	87.28		
Parameter	Mean	SD	CV
No PE	7.25	15.43	212.68

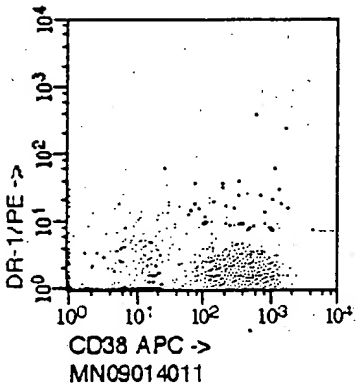










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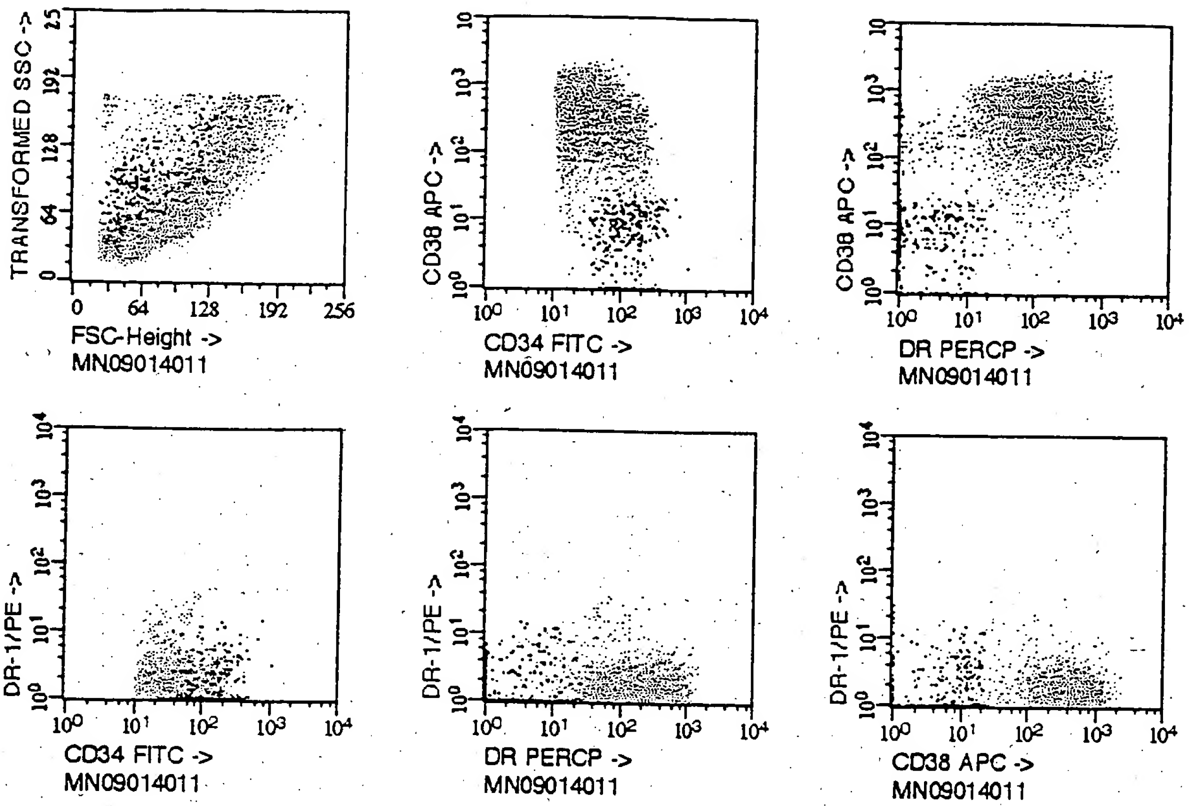
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
Method     : MN09014set1
File       : MN09014011
Sample ID  :
Acquired   : [redacted]
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

Total Events            10054
Total Gated Events      10054

                        DR-1-/CD38-/DR+(red)
% of Gated Events            0.85
Parameter                    Mean          SD          CV
  DR-1/ PE                   6.48         12.57      193.88
                        DR-1+/CD38-/DR+(green)
% of Gated Events            0.00
Parameter                    Mean          SD          CV
  DR-1/ PE                  80.00           --          --
                        DR-1+/CD38+/DR+(blue)
% of Gated Events            0.40
Parameter                    Mean          SD          CV
  DR-1/ PE                  79.41         24.65       31.04
                        DR-1-/CD38+/DR+(yellow)
% of Gated Events           84.51
Parameter                    Mean          SD          CV
  DR-1/ PE                   3.95          8.98      227.32
                        Unclassified Events
% of Gated Events           14.21
Parameter                    Mean          SD          CV
  DR-1/ PE                  16.18         26.64      164.62
```



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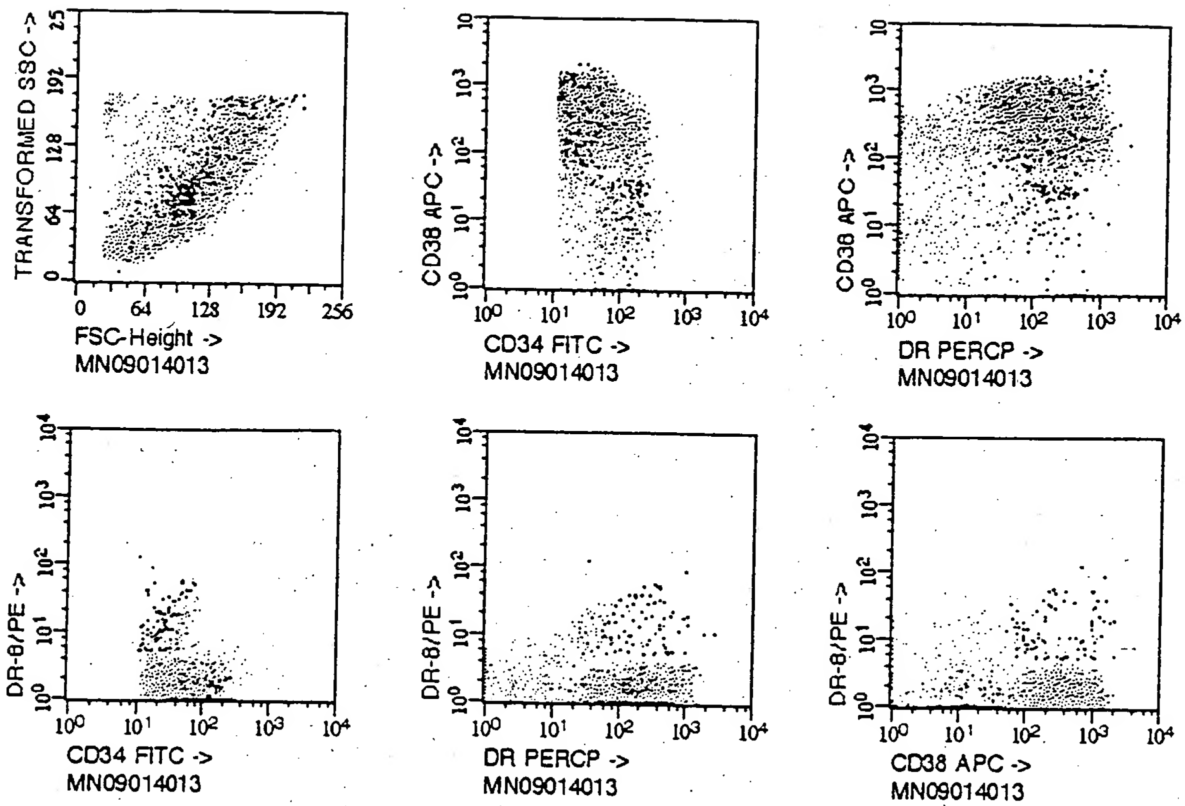
Method : MN09014set1
File : MN09014011
Sample ID : [redacted]
Acquired :

* *

Total Events 10054
Total Gated Events 10054

	DR-1-/CD38-/DR-(red)		
% of Gated Events	2.97		
Parameter	Mean	SD	CV
DR-1/ PE	14.97	19.97	133.42
	DR-1+/CD38-/DR-(green)		
% of Gated Events	0.		
Parameter	Mean	SD	CV
DR-1/ PE	--	--	--
	DR-1+/CD38+/DR-(blue)		
% of Gated Events	0.		
Parameter	Mean	SD	CV
DR-1/ PE	--	--	--
	DR-1-/CD38+/DR-(yellow)		
% of Gated Events	4.85		
Parameter	Mean	SD	CV
DR-1/ PE	4.38	9.24	210.72
	Unclassified Events		
% of Gated Events	92.17		
Parameter	Mean	SD	CV
DR-1/ PE	5.82	14.55	249.71



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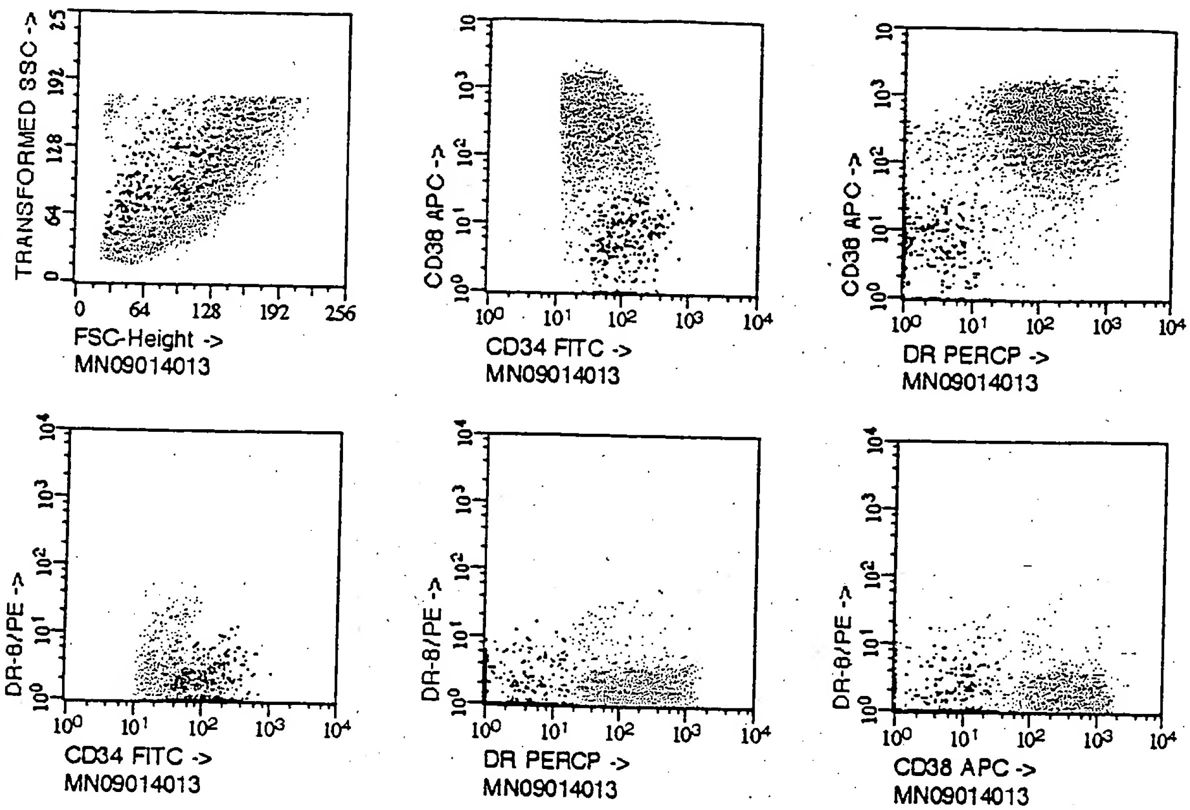
Method : MN09014set1
File : MN09014013
Sample ID :
Acquired : [redacted]

* *

Total Events 10062
Total Gated Events 10062

	DR-8-/CD38-/DR+(red)		
% of Gated Events	1.42		
Parameter	Mean	SD	CV
DR-8/ PE	4.53	8.70	192.13
	DR-8+/CD38-/DR+(green)		
% of Gated Events	0.		
Parameter	Mean	SD	CV
DR-8/ PE	--	--	--
	DR-8+/CD38+/DR+(blue)		
% of Gated Events	0.83		
Parameter	Mean	SD	CV
DR-8/ PE	74.22	21.28	28.67
	DR-8-/CD38+/DR+(yellow)		
% of Gated Events	83.10		
Parameter	Mean	SD	CV
DR-8/ PE	3.80	8.66	227.58
	Unclassified Events		
% of Gated Events	14.63		
Parameter	Mean	SD	CV
DR-8/ PE	15.66	27.15	173.37



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Method : MN09014set1
File : MN09014013
Sample ID :
Acquired : [redacted]

* *

Total Events 10062
Total Gated Events 10062

DR-8-/CD38-/DR-(red)

% of Gated Events	3.42		
Parameter	Mean	SD	CV
DR-8/ PE	13.60	17.90	131.58

DR-8+/CD38-/DR-(green)

% of Gated Events	0.		
Parameter	Mean	SD	CV
DR-8/ PE	--	--	--

DR-8+/CD38+/DR-(blue)

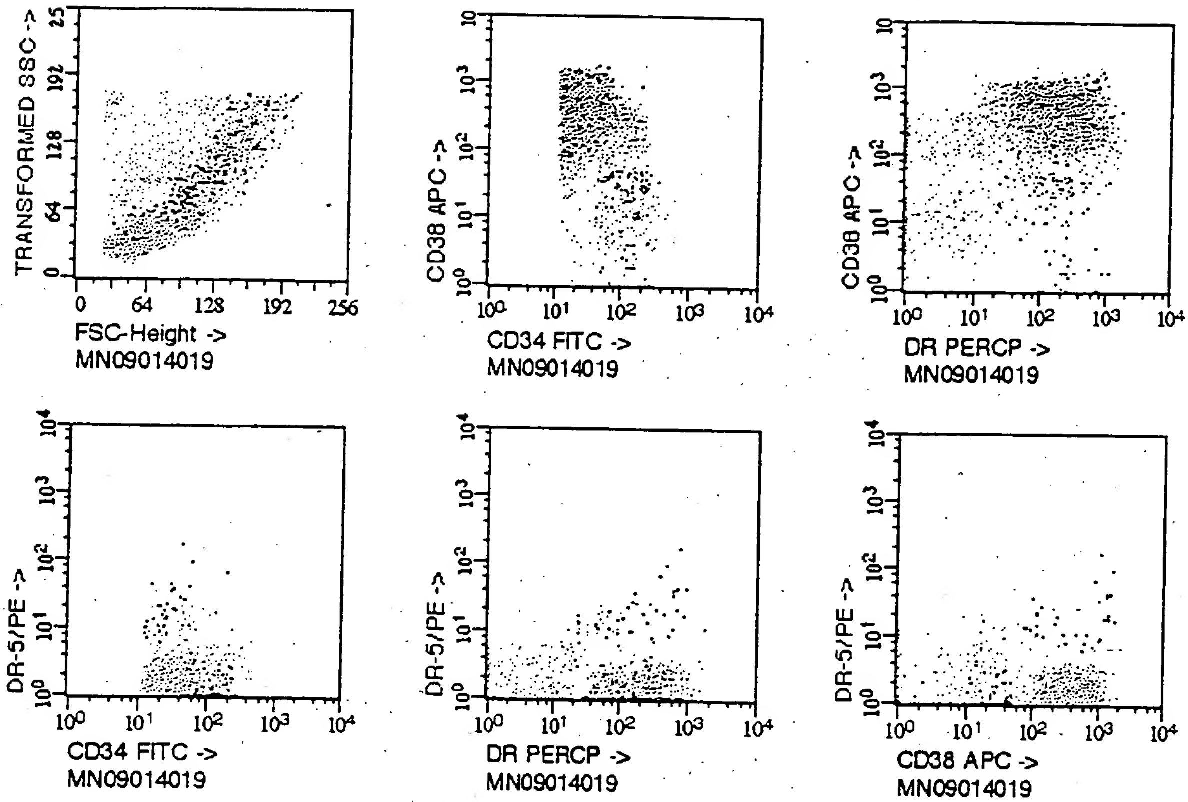
% of Gated Events	0.		
Parameter	Mean	SD	CV
DR-8/ PE	--	--	--

DR-8-/CD38+/DR-(yellow)

% of Gated Events	6.66		
Parameter	Mean	SD	CV
DR-8/ PE	4.97	10.57	212.35

Unclassified Events

% of Gated Events	89.90		
Parameter	Mean	SD	CV
DR-8/ PE	5.94	15.32	257.89



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Method      : MN09014set1
File        : MN09014019
Sample ID   :
Acquired    : [redacted]
```
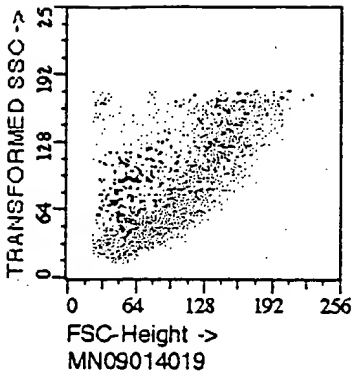
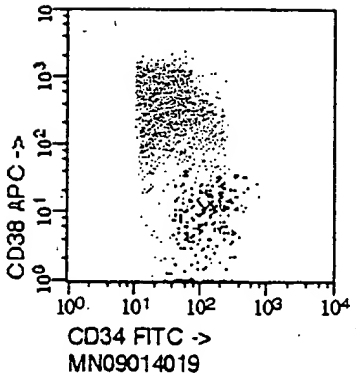
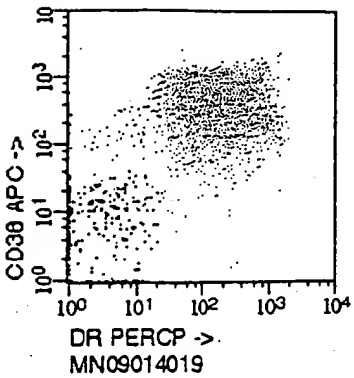

* *

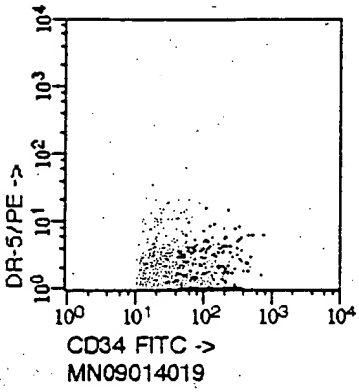
Total Events	5071
Total Gated Events	5071

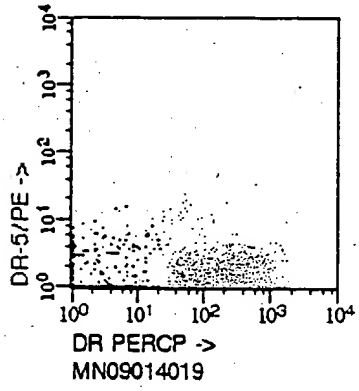
	DR-5-/CD38-/DR+(red)		
% of Gated Events	1.81		
Parameter	Mean	SD	CV
DR-5/ PE	6.50	11.76	180.96
	DR-5+/CD38-/DR+(green)		
% of Gated Events	0.03		
Parameter	Mean	SD	CV
DR-5/ PE	66.00	18.38	27.85
	DR-5+/CD38+/DR+(blue)		
% of Gated Events	0.67		
Parameter	Mean	SD	CV
DR-5/ PE	82.02	20.92	25.50
	DR-5-/CD38+/DR+(yellow)		
% of Gated Events	77.18		
Parameter	Mean	SD	CV
DR-5/ PE	4.02	9.06	225.16
	Unclassified Events		
% of Gated Events	20.29		
Parameter	Mean	SD	CV
DR-5/ PE	14.19	23.16	163.16

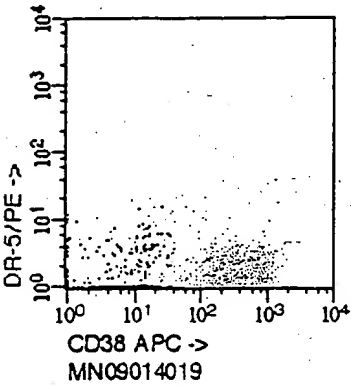










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Method     : MN09014set1
File       : MN09014019
Sample ID  :
Acquired   : [redacted]
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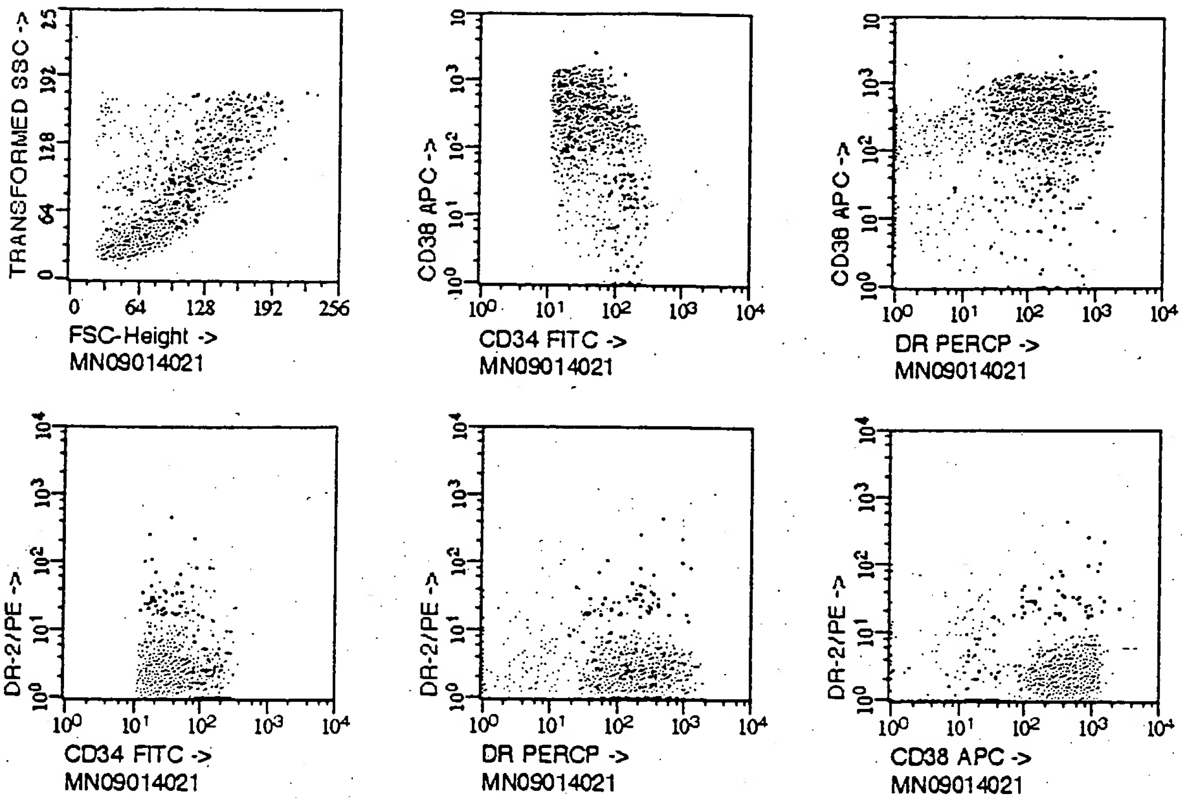
Total Events              5071
Total Gated Events        5071

                        DR-5-/CD38-/DR-(red)
% of Gated Events          4.75
Parameter                  Mean          SD          CV
  DR-5/ PE                15.00       18.85      125.69
                        DR-5+/CD38-/DR-(green)
% of Gated Events          0.
Parameter                  Mean          SD          CV
  DR-5/ PE                  --          --          --
                        DR-5+/CD38+/DR-(blue)
% of Gated Events          0.
Parameter                  Mean          SD          CV
  DR-5/ PE                  --          --          --
                        DR-5-/CD38+/DR-(yellow)
% of Gated Events          8.32
Parameter                  Mean          SD          CV
  DR-5/ PE                 4.15        9.35      225.16
                        Unclassified Events
% of Gated Events         86.92
Parameter                  Mean          SD          CV
  DR-5/ PE                 6.46       15.39      238.00
```



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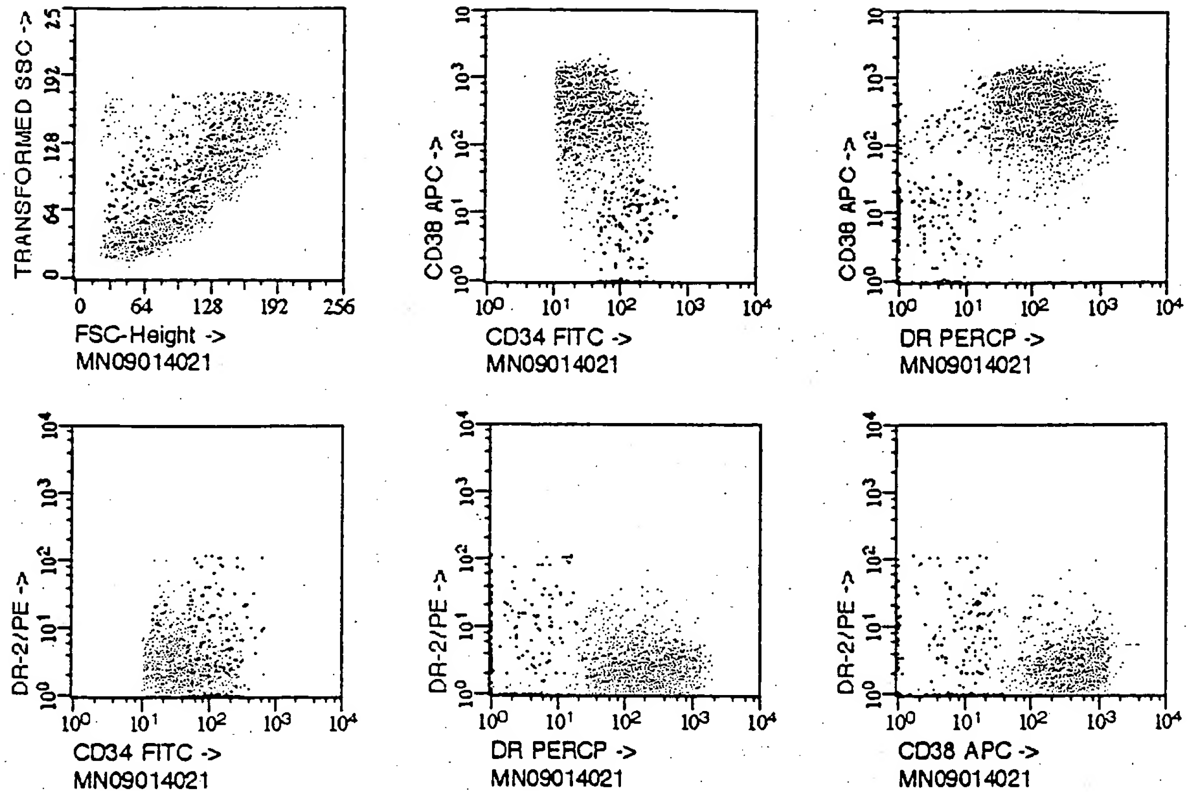
Method : MN09014set1
File : MN09014021
Sample ID :
Acquired : [redacted]

* *

Total Events 5027
Total Gated Events 5027

	DR-2-/CD38-/DR+(red)		
% of Gated Events	1.49		
Parameter	Mean	SD	CV
DR-2/ PE	14.09	19.61	139.17
	DR-2+/CD38-/DR+(green)		
% of Gated Events	0.01		
Parameter	Mean	SD	CV
DR-2/ PE	78.00	—	—
	DR-2+/CD38+/DR+(blue)		
% of Gated Events	1.01		
Parameter	Mean	SD	CV
DR-2/ PE	97.49	20.82	21.36
	DR-2-/CD38+/DR+(yellow)		
% of Gated Events	81.59		
Parameter	Mean	SD	CV
DR-2/ PE	12.35	17.18	139.08
	Unclassified Events		
% of Gated Events	15.87		
Parameter	Mean	SD	CV
DR-2/ PE	29.51	38.95	131.97



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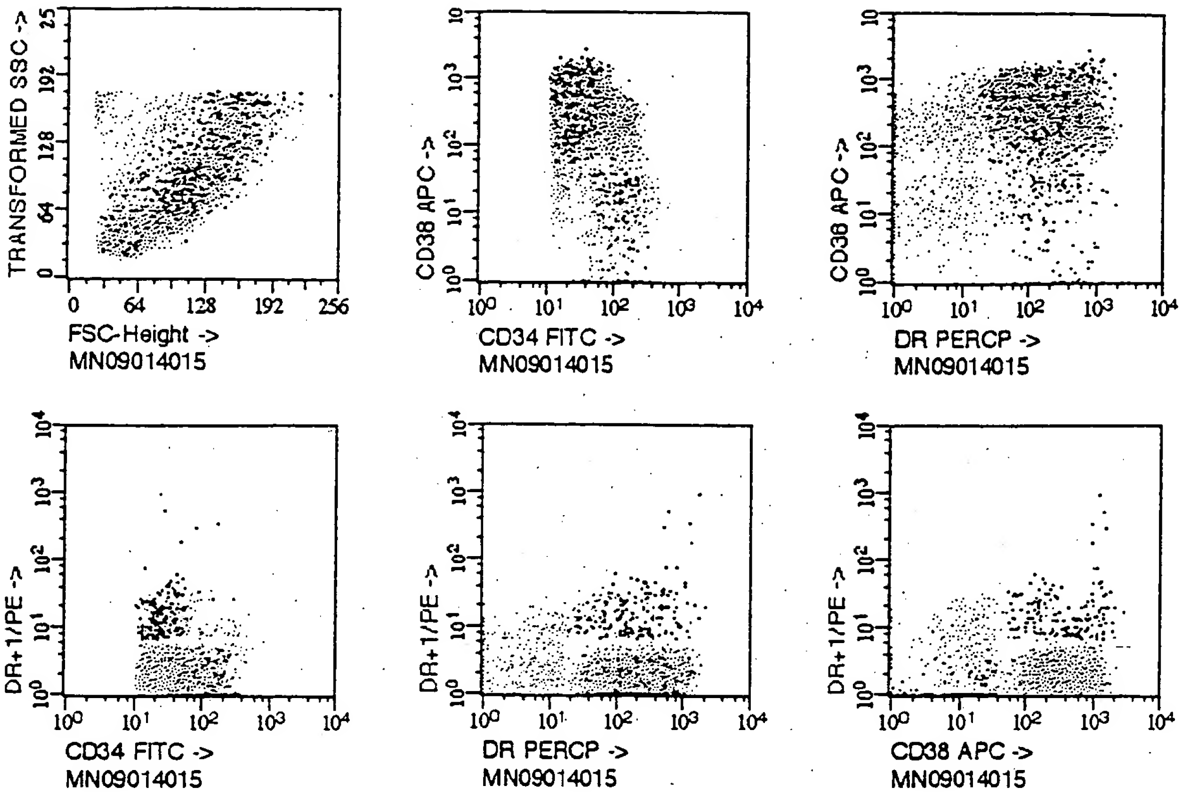
Method : MN09014set1
File : MN09014021
Sample ID :
Acquired : [redacted]

* *

Total Events	5027		
Total Gated Events	5027		
	DR-2-/CD38-/DR-(red)		
% of Gated Events	2.12		
Parameter	Mean	SD	CV
DR-2/ PE	24.28	23.16	95.38
	DR-2+/CD38-/DR-(green)		
% of Gated Events	1.03		
Parameter	Mean	SD	CV
DR-2/ PE	96.13	21.48	22.34
	DR-2+/CD38+/DR-(blue)		
% of Gated Events	0.09		
Parameter	Mean	SD	CV
DR-2/ PE	76.00	9.32	12.27
	DR-2-/CD38+/DR-(yellow)		
% of Gated Events	7.95		
Parameter	Mean	SD	CV
DR-2/ PE	8.71	14.53	166.88
	Unclassified Events		
% of Gated Events	88.78		
Parameter	Mean	SD	CV
DR-2/ PE	15.43	23.51	152.33



* *

Method : MN09014set1
File : MN09014015
Sample ID :
Acquired : [redacted]

* *

Total Events 10050
Total Gated Events 10050

DR+[redacted]-/CD38-/DR+(red)

% of Gated Events	1.51		
Parameter	Mean	SD	CV
DR+1/ PE	7.21	12.33	170.94

DR+[redacted]+/CD38-/DR+(green)

% of Gated Events	0.01		
Parameter	Mean	SD	CV
DR+1/ PE	79.00	16.97	21.48

DR+[redacted]+/CD38+/DR+(blue)

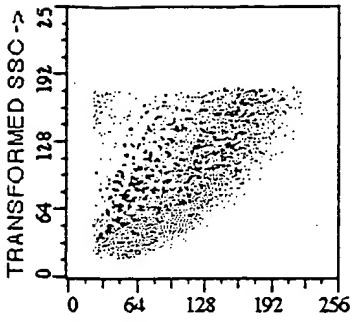
% of Gated Events	1.64		
Parameter	Mean	SD	CV
DR+1/ PE	77.85	22.44	28.82

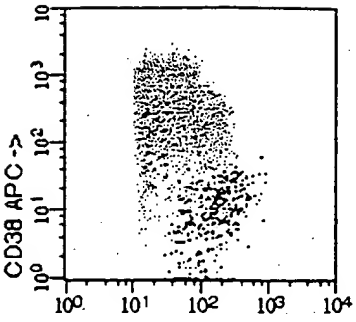
DR+[redacted]-/CD38+/DR+(yellow)

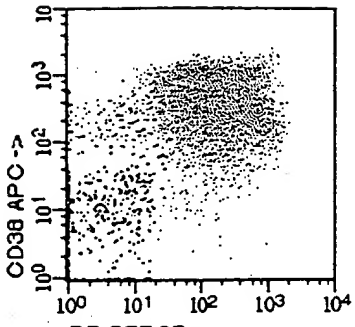
% of Gated Events	82.39		
Parameter	Mean	SD	CV
DR+1/ PE	6.21	11.50	185.06

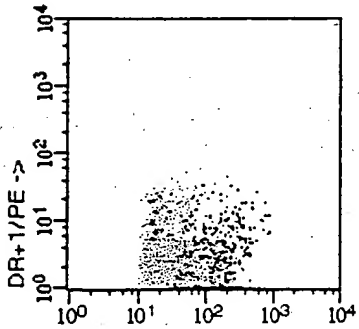
Unclassified Events

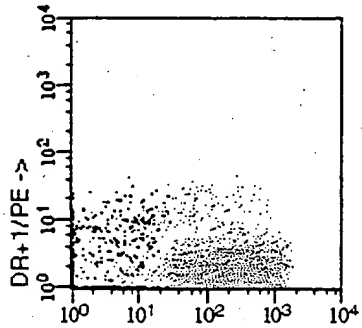
% of Gated Events	14.42		
Parameter	Mean	SD	CV
DR+1/ PE	23.15	29.85	128.92

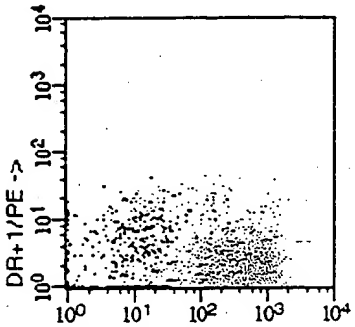










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Method     : MN09014set1
File       : MN09014015
Sample ID  :
Acquired   : [redacted]
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

Total Events            10050
Total Gated Events      10050

                        DR+[redacted]-/CD38-/DR-(red)
% of Gated Events            1.99
Parameter                    Mean          SD          CV
  DR+1/ PE                  16.44       15.98       97.21
                        DR+[redacted]+/CD38-/DR-(green)
% of Gated Events            1.22
Parameter                    Mean          SD          CV
  DR+1/ PE                  61.94       12.38       19.98
                        DR+[redacted]+/CD38+/DR-(blue)
% of Gated Events            0.21
Parameter                    Mean          SD          CV
  DR+1/ PE                  65.09       13.80       21.20
                        DR+[redacted]-/CD38+/DR-(yellow)
% of Gated Events            6.93
Parameter                    Mean          SD          CV
  DR+1/ PE                   5.97       10.51      175.85
                        Unclassified Events
% of Gated Events           89.63
Parameter                    Mean          SD          CV
  DR+1/ PE                   9.17       18.43      200.80
```

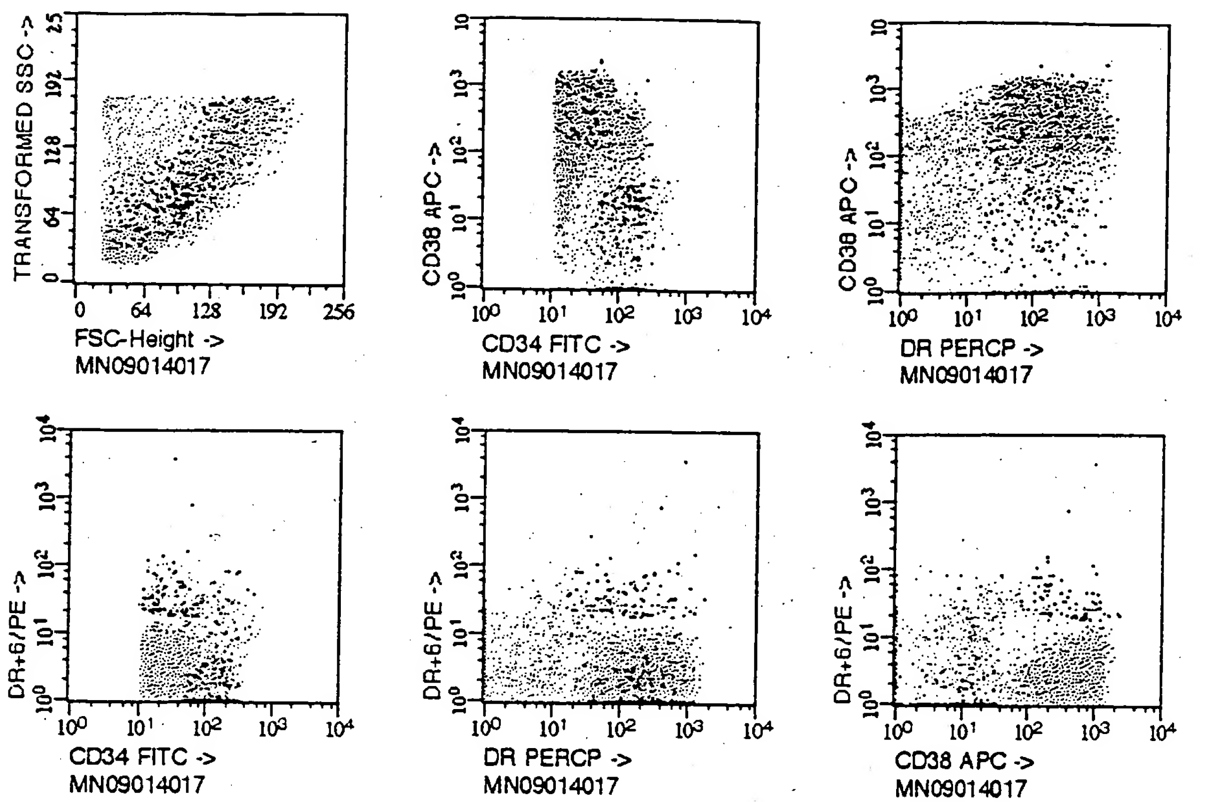

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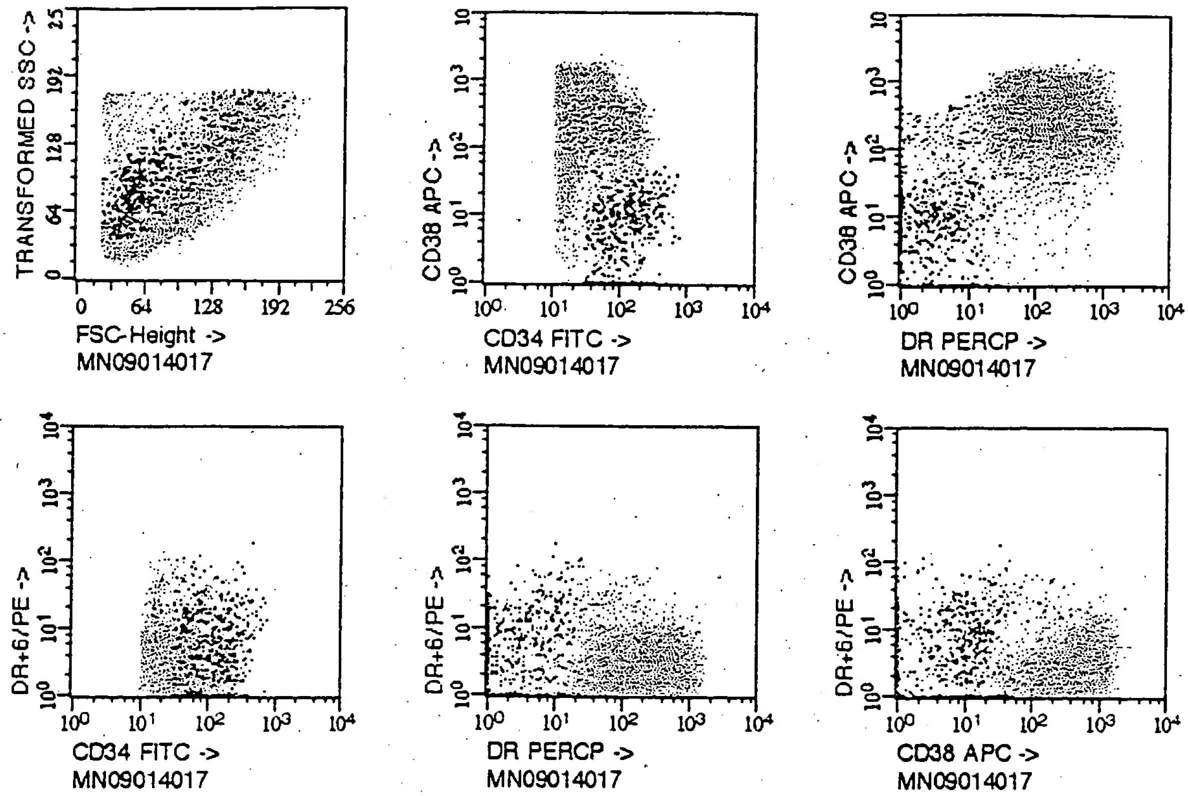
Method : MN09014set1
File : MN09014017
Sample ID :
Acquired : [redacted]

* *

Total Events 10008
Total Gated Events 10008

	DR+6-/CD38-/DR+(red)		
% of Gated Events	1.85		
Parameter	Mean	SD	CV
DR+6/ PE	12.32	18.50	150.11
	DR+6+/CD38-/DR+(green)		
% of Gated Events	0.08		
Parameter	Mean	SD	CV
DR+6/ PE	110.77	22.06	19.91
	DR+6+/CD38+/DR+(blue)		
% of Gated Events	0.83		
Parameter	Mean	SD	CV
DR+6/ PE	100.63	22.50	22.36
	DR+6-/CD38+/DR+(yellow)		
% of Gated Events	72.89		
Parameter	Mean	SD	CV
DR+6/ PE	16.13	19.51	120.91
	Unclassified Events		
% of Gated Events	24.32		
Parameter	Mean	SD	CV
DR+6/ PE	27.58	35.96	130.39



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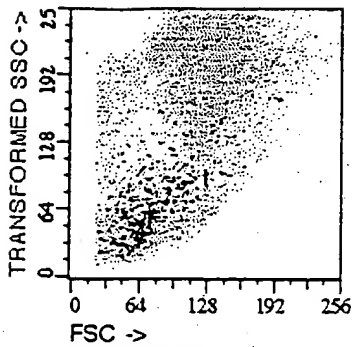
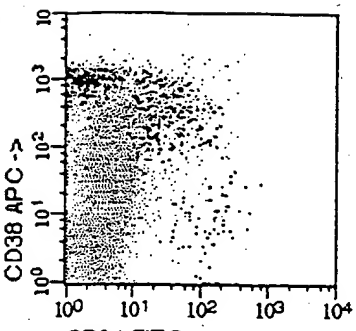
Method : MN09014set1
File : MN09014017
Sample ID :
Acquired : [redacted]

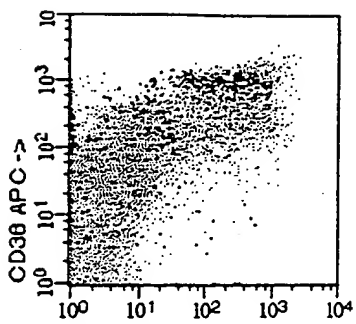
* * * * * * [redacted] *

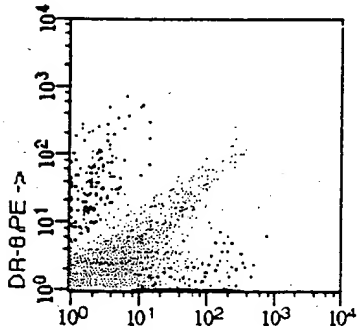
Total Events 10008
Total Gated Events 10008

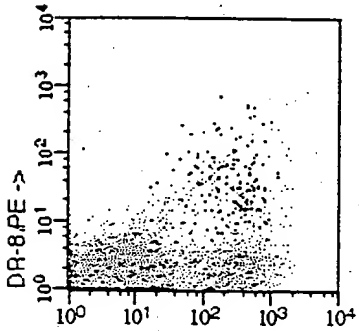
	DR+6-/CD38-/DR-(red)		
% of Gated Events	3.47		
Parameter	Mean	SD	CV
DR+6/ PE	31.94	24.16	75.65
	DR+6+/CD38-/DR-(green)		
% of Gated Events	1.36		
Parameter	Mean	SD	CV
DR+6/ PE	90.13	15.75	17.47
	DR+6+/CD38+/DR-(blue)		
% of Gated Events	0.08		
Parameter	Mean	SD	CV
DR+6/ PE	84.66	11.57	13.67
	DR+6-/CD38+/DR-(yellow)		
% of Gated Events	7.10		
Parameter	Mean	SD	CV
DR+6/ PE	9.96	15.65	156.99
	Unclassified Events		
% of Gated Events	87.95		
Parameter	Mean	SD	CV
DR+6/ PE	18.77	25.35	135.01

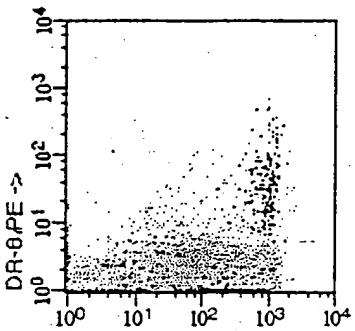












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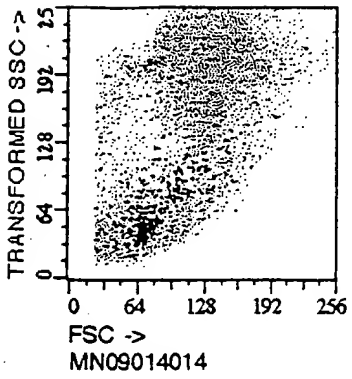
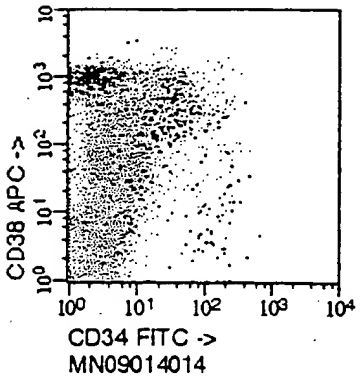
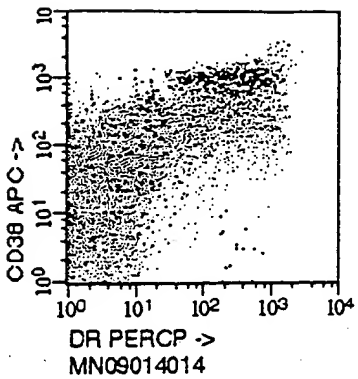
Method : MN09014set1
File : MN09014012
Sample ID :
Acquired : [redacted]

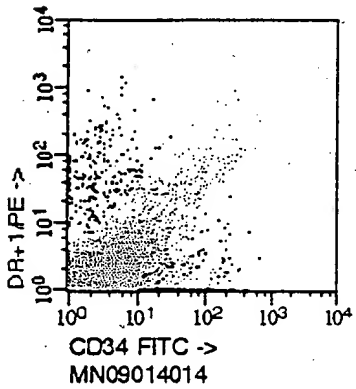
* *

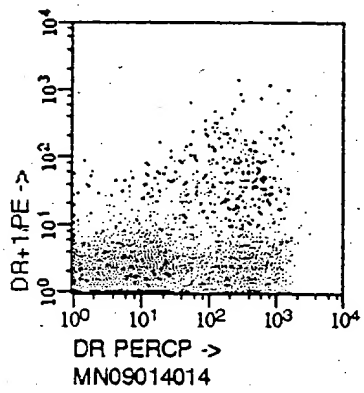
Total Events	20000		
Total Gated Events	20000		
	CD34+/CD38-/DR+		
% of Gated Events	0.06		
Parameter	Mean	SD	CV
DR-8/PE	13.45	23.62	175.65
	CD34+/CD38-/DR-		
% of Gated Events	0.20		
Parameter	Mean	SD	CV
DR-8/PE	12.33	17.46	141.56
	CD34+/CD38+/DR-		
% of Gated Events	0.62		
Parameter	Mean	SD	CV
DR-8/PE	4.67	10.89	232.82
	CD34+/CD38+/DR+		
% of Gated Events	5.60		
Parameter	Mean	SD	CV
DR-8/PE	3.94	11.21	284.25
	White Events		
% of Gated Events	0.76		
Parameter	Mean	SD	CV
DR-8/PE	100.61	29.95	29.77
	Unclassified Events		
% of Gated Events	92.73		
Parameter	Mean	SD	CV
DR-8/PE	8.53	17.52	205.16

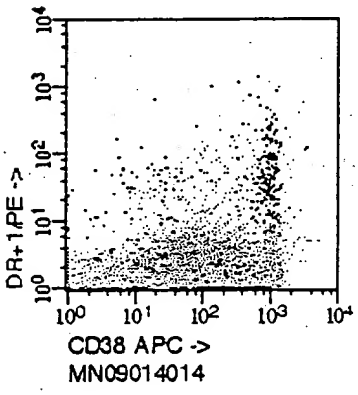












* *

Method : MN09014set1
File : MN09014014
Sample ID :
Acquired : [redacted]

* *

Total Events 20000
Total Gated Events 20000

CD34+/CD38-/DR+

% of Gated Events	0.07		
Parameter	Mean	SD	CV
DR+1/PE	22.04	58.26	264.28

CD34+/CD38-/DR-

% of Gated Events	0.22		
Parameter	Mean	SD	CV
DR+1/PE	25.12	25.76	102.54

CD34+/CD38+/DR-

% of Gated Events	0.45		
Parameter	Mean	SD	CV
DR+1/PE	6.44	12.89	200.14

CD34+/CD38+/DR+

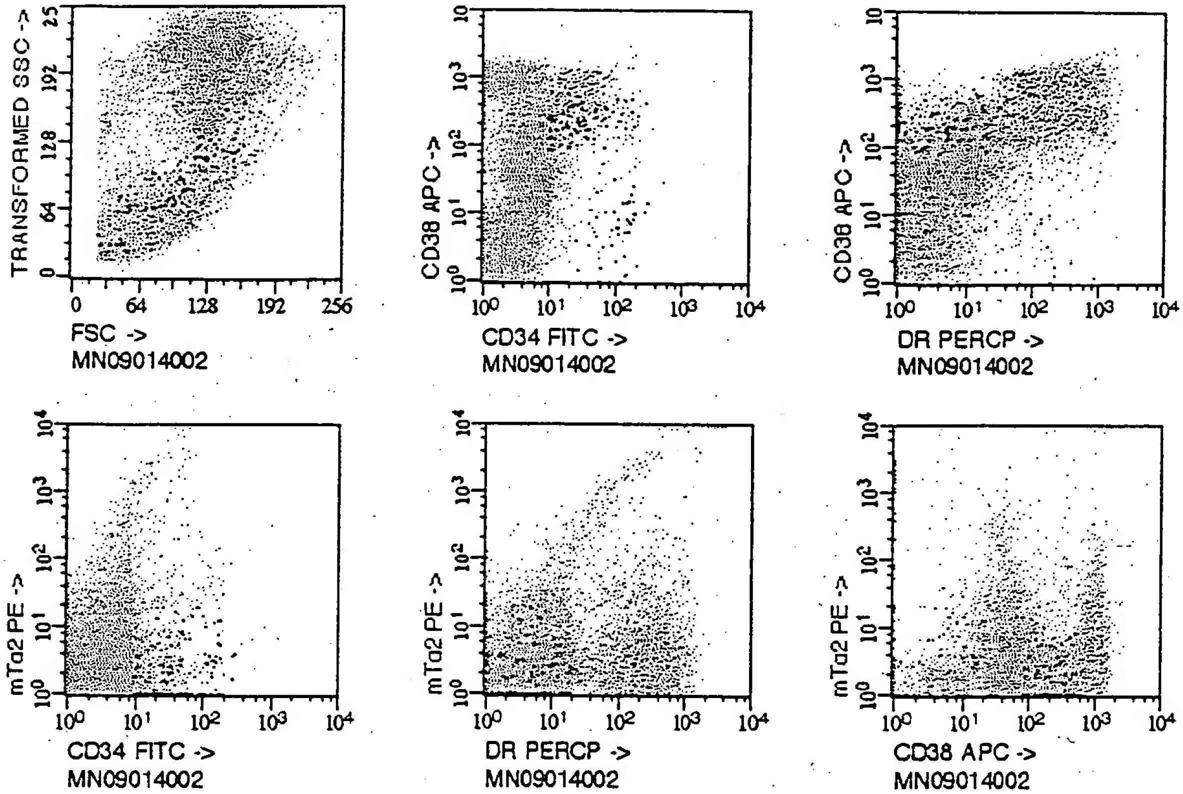
% of Gated Events	5.01		
Parameter	Mean	SD	CV
DR+1/PE	6.14	12.76	207.91

White Events

% of Gated Events	1.22		
Parameter	Mean	SD	CV
DR+1/PE	108.69	30.06	27.65

Unclassified Events

% of Gated Events	93.02		
Parameter	Mean	SD	CV
DR+1/PE	11.48	21.61	188.19

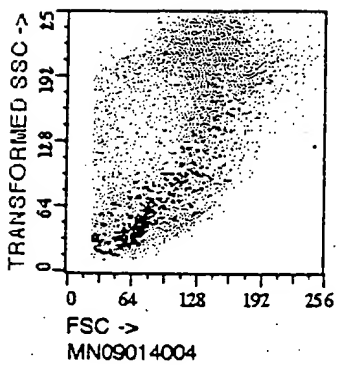


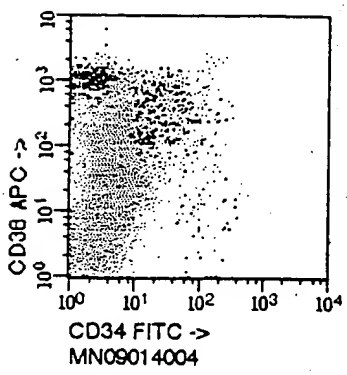
* *

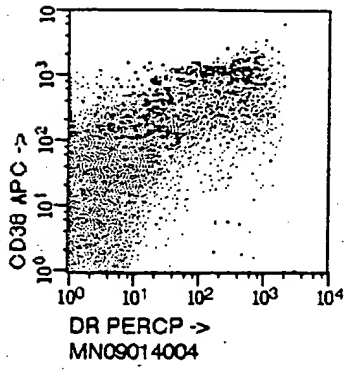
Method : MN09014set1
File : MN09014002
Sample ID :
Acquired : [redacted]

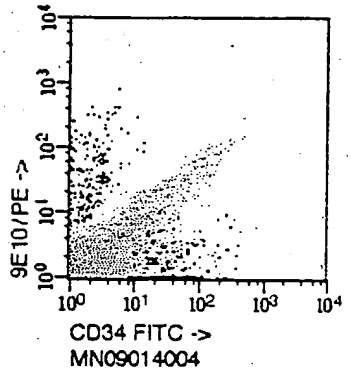
* * * * * * [redacted] *

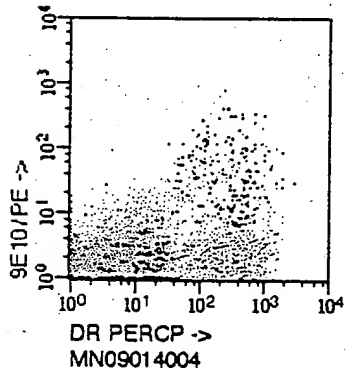
Total Events	20000		
Total Gated Events	20000		
	CD34+/CD38-/DR+		
% of Gated Events	0.04		
Parameter	Mean	SD	CV
mTq2 PE	15.71	21.34	135.83
	CD34+/CD38-/DR-		
% of Gated Events	0.12		
Parameter	Mean	SD	CV
mTg2 PE	54.67	29.57	54.09
	CD34+/CD38+/DR-		
% of Gated Events	0.44		
Parameter	Mean	SD	CV
mTg2 PE	15.51	20.59	132.74
	CD34+/CD38+/DR+		
% of Gated Events	6.02		
Parameter	Mean	SD	CV
mTq2 PE	19.20	22.97	119.65
	Unclassified Events		
% of Gated Events	93.36		
Parameter	Mean	SD	CV
mTq2 PE	25.88	39.63	153.10

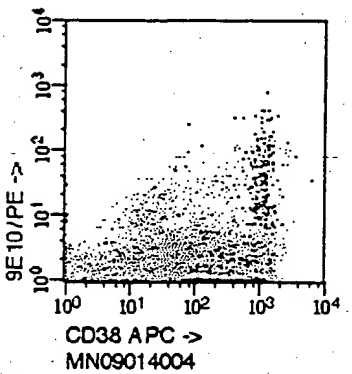










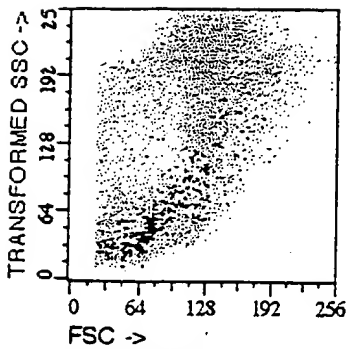


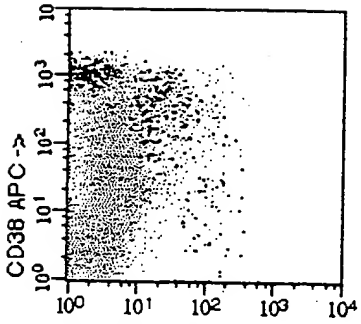
* *

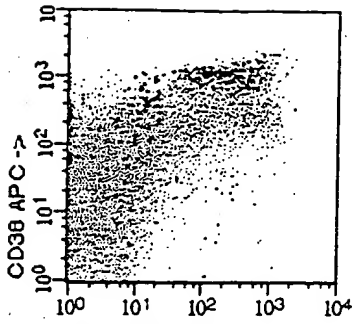
Method : MN09014set1
File : MN09014004
Sample ID :
Acquired : [redacted]

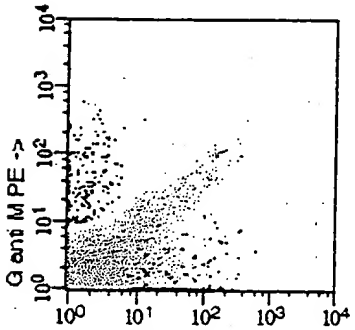
* *

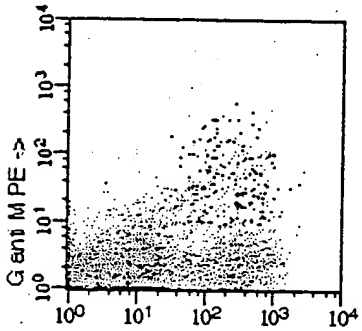
Total Events	20000		
Total Gated Events	20000		
	CD34+/CD38-/DR+		
% of Gated Events	0.05		
Parameter	Mean	SD	CV
9E10/ PE	13.00	15.12	116.36
	CD34+/CD38-/DR-		
% of Gated Events	0.16		
Parameter	Mean	SD	CV
9E10/ PE	19.93	19.98	100.25
	CD34+/CD38+/DR-		
% of Gated Events	0.79		
Parameter	Mean	SD	CV
9E10/ PE	8.21	14.27	173.75
	CD34+/CD38+/DR+		
% of Gated Events	5.26		
Parameter	Mean	SD	CV
9E10/ PE	9.49	14.66	154.55
	White Events		
% of Gated Events	1.05		
Parameter	Mean	SD	CV
9E10/ PE	100.66	30.97	30.76
	Unclassified Events		
% of Gated Events	92.67		
Parameter	Mean	SD	CV
9E10/ PE	11.12	20.44	183.75

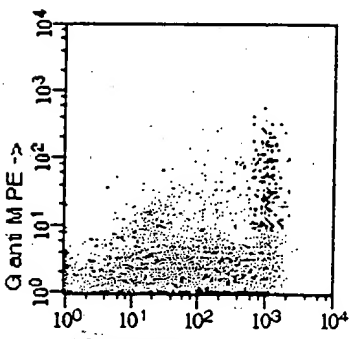










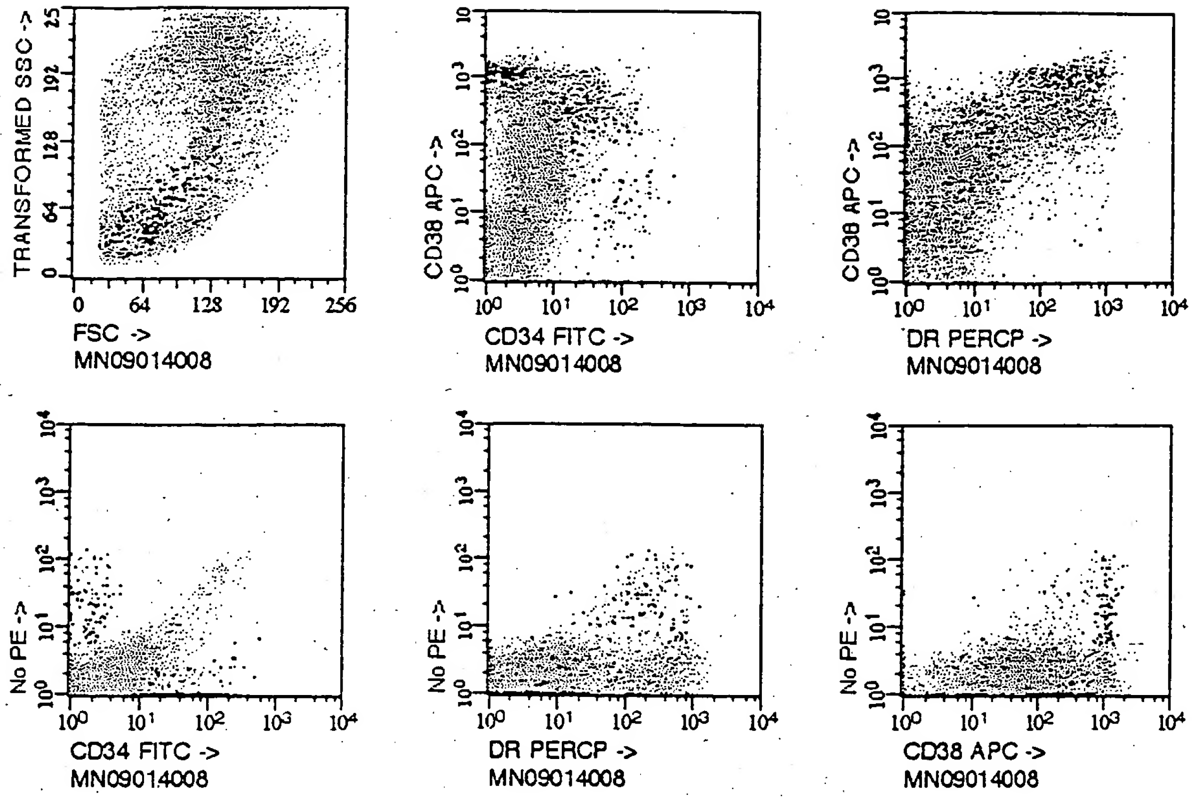


* *

Method : MN09014set1
File : MN09014006
Sample ID :
Acquired : [redacted]

* *

Total Events	20000		
Total Gated Events	20000		
	CD34+/CD38-/DR+		
% of Gated Events	0.06		
Parameter	Mean	SD	CV
G anti M PE	3.83	7.96	207.78
	CD34+/CD38-/DR-		
% of Gated Events	0.16		
Parameter	Mean	SD	CV
G anti M PE	24.76	21.68	87.56
	CD34+/CD38+/DR-		
% of Gated Events	0.53		
Parameter	Mean	SD	CV
G anti M PE	6.35	12.39	195.12
	CD34+/CD38+/DR+		
% of Gated Events	4.98		
Parameter	Mean	SD	CV
G anti M PE	9.50	15.41	162.11
	White Events		
% of Gated Events	0.83		
Parameter	Mean	SD	CV
G anti M PE	104.46	27.87	26.68
	Unclassified Events		
% of Gated Events	93.42		
Parameter	Mean	SD	CV
G anti M PE	11.04	19.86	179.76



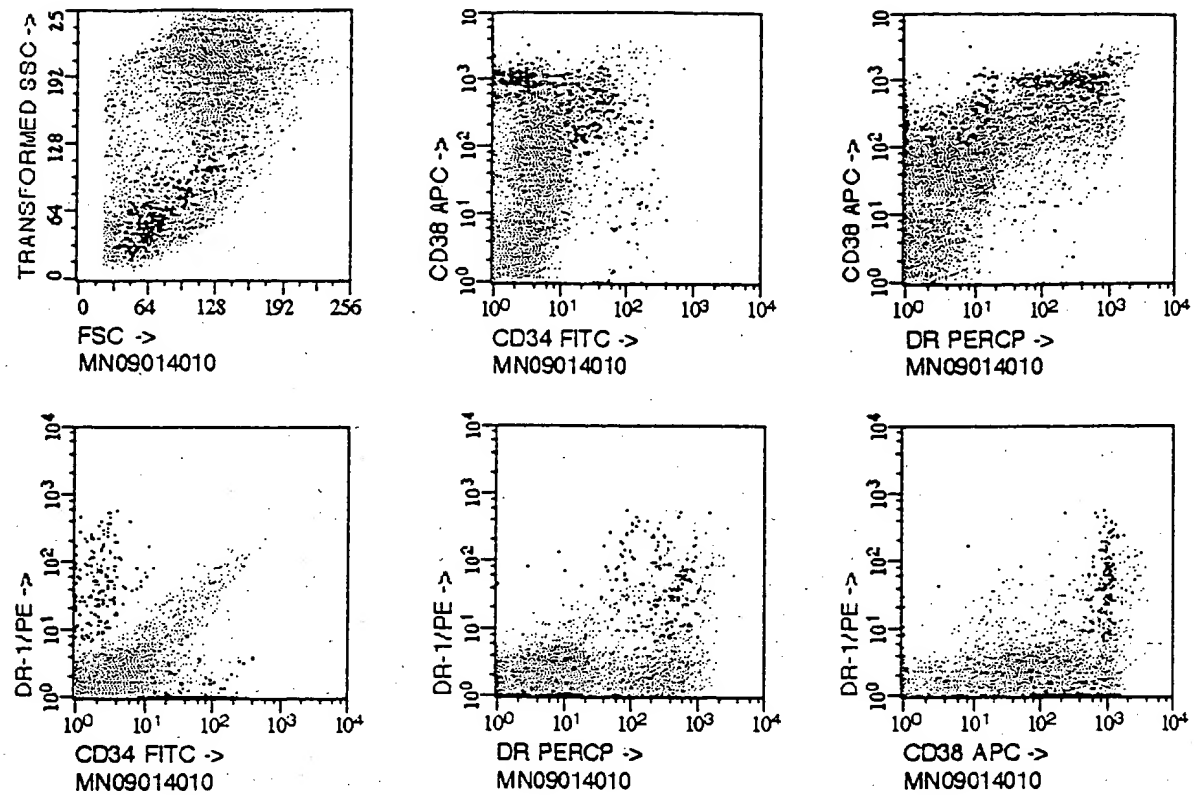
* *

Method : MN09014set1
File : MN09014008
Sample ID : [redacted]
Acquired :

* *

Total Events 20000
Total Gated Events 20000

	CD34+/CD38-/DR+			
% of Gated Events	0.04			
Parameter		Mean	SD	CV
No PE		2.57	8.29	322.39
	CD34+/CD38-/DR-			
% of Gated Events	0.21			
Parameter		Mean	SD	CV
No PE		6.69	13.29	198.69
	CD34+/CD38+/DR-			
% of Gated Events	0.38			
Parameter		Mean	SD	CV
No PE		4.49	10.28	228.99
	CD34+/CD38+/DR+			
% of Gated Events	5.25			
Parameter		Mean	SD	CV
No PE		4.46	10.88	243.71
	White Events			
% of Gated Events	0.48			
Parameter		Mean	SD	CV
No PE		84.42	23.31	27.62
	Unclassified Events			
% of Gated Events	93.61			
Parameter		Mean	SD	CV
No PE		7.99	16.25	203.35



* *

Method : MN09014seti

File : MN09014010

Sample ID : [redacted]

Acquired :

* *

Total Events 20000

Total Gated Events 20000

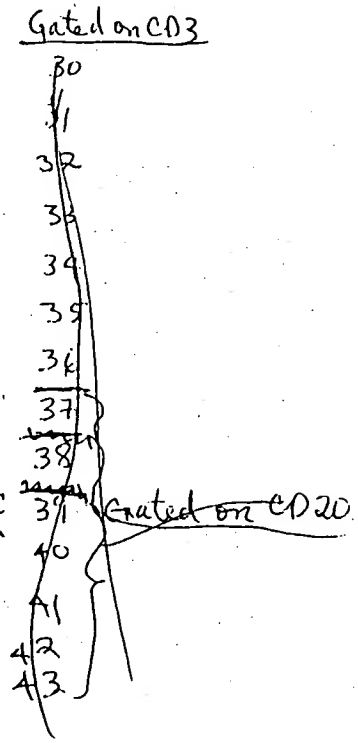
	CD34+/CD38-/DR+		
% of Gated Events	0.09		
Parameter	Mean	SD	CV
DR-1/ PE	5.66	9.98	176.13
	CD34+/CD38-/DR-		
% of Gated Events	0.09		
Parameter	Mean	SD	CV
DR-1/ PE	11.44	16.64	145.38
	CD34+/CD38+/DR-		
% of Gated Events	0.47		
Parameter	Mean	SD	CV
DR-1/ PE	2.41	6.30	261.19
	CD34+/CD38+/DR+		
% of Gated Events	6.02		
Parameter	Mean	SD	CV
DR-1/ PE	4.16	10.83	260.40
	White Events		
% of Gated Events	0.94		
Parameter	Mean	SD	CV
DR-1/ PE	105.50	30.43	28.84
	Unclassified Events		
% of Gated Events	92.37		
Parameter	Mean	SD	CV
DR-1/ PE	9.23	18.85	204.12

[redacted]

Staining of lysed peripheral blood with single chain phage antibodies. Phages have been cleaved off. E910 is an Ab which recognizes the c-myc tag on the single chain Ab. mTg3 is a negative control. $5x10^5$ lysed NPB (donor #390) per test.

A1 = antibody selected from all cells. T8 = antibody selected from T - cells. B9 and B28 = antibodies selected from B - cells.

Lymph Gate													
	1.	Unstained											
16	2.	mTg3l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD20 FITC				
17	(3.)	mTg3l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD4 FITC	+	CD8biotinl	strepav APC	
18	(4.)	mTg3l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD56 FITC	+	CD8biotinl	strepav APC	
19	5.	A1l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD20 FITC				
20	6.	T8l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD20 FITC				
21	(7)	T8l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD4 FITC	+	CD8biotinl	strepav APC	
22	(8)	T8l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD56 FITC	+	CD8biotinl	strepav APC	
23	9.	B28l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD20 FITC				
24	10.	B9l	9E10l	GαM PEl	NMS	+	CD3 PerCP	+	CD20 FITC				
25	(11)	B9l	9E10l	GαM PEl	NMS	+	CD20 PerCP	+	CD14 FITC	+	CD15biotinl	strepav APC	
26	~~12.~~	B9l	9E10l	GαM PEl	NMS	+	CD20 PerCP	+	CD56FITC	+	~~CD2biotinl~~ No bio CD2	~~strepav APC~~	
27	(13.)	B9l	9E10l	GαM PEl	NMS	+	CD20 PerCP	+	sIgE FITC	+	sIgMbiotinl	strepav APC	
28	14.	B9l	9E10l	GαM PEl	NMS	+	CD20 PerCP	+	sIgDFITC				
29	15.	B9l	9E10l	GαM PEl	NMS	+	CD20 PerCP	+	Kappa FITC				



Next time try CD3PerCP, CD8FITC, T8 PE ; a few donors
CD3PerCP, CD8/APC, T8 PE

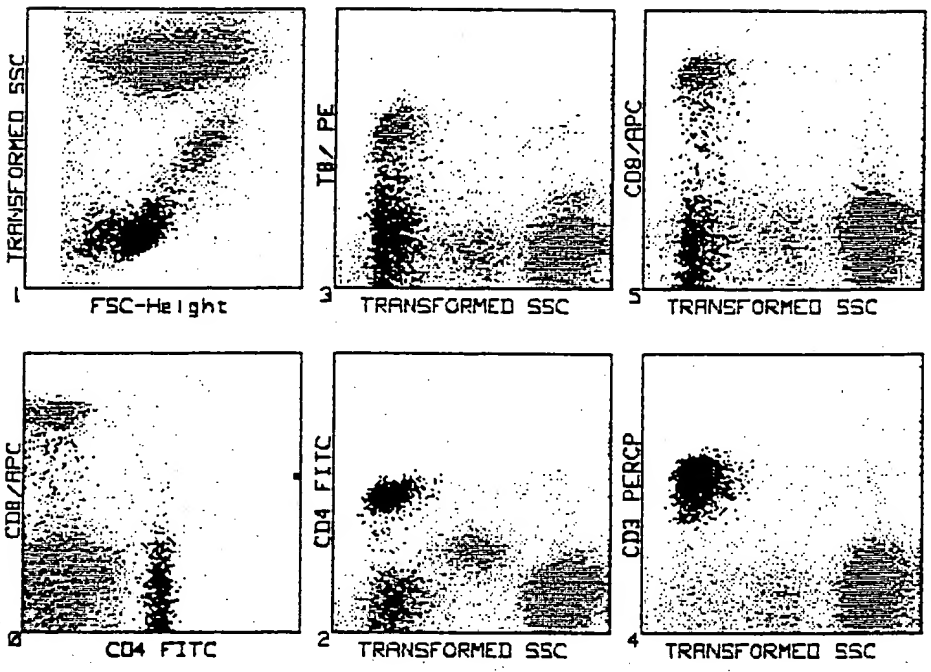
scFv on fetal BM

CD43 staining compare

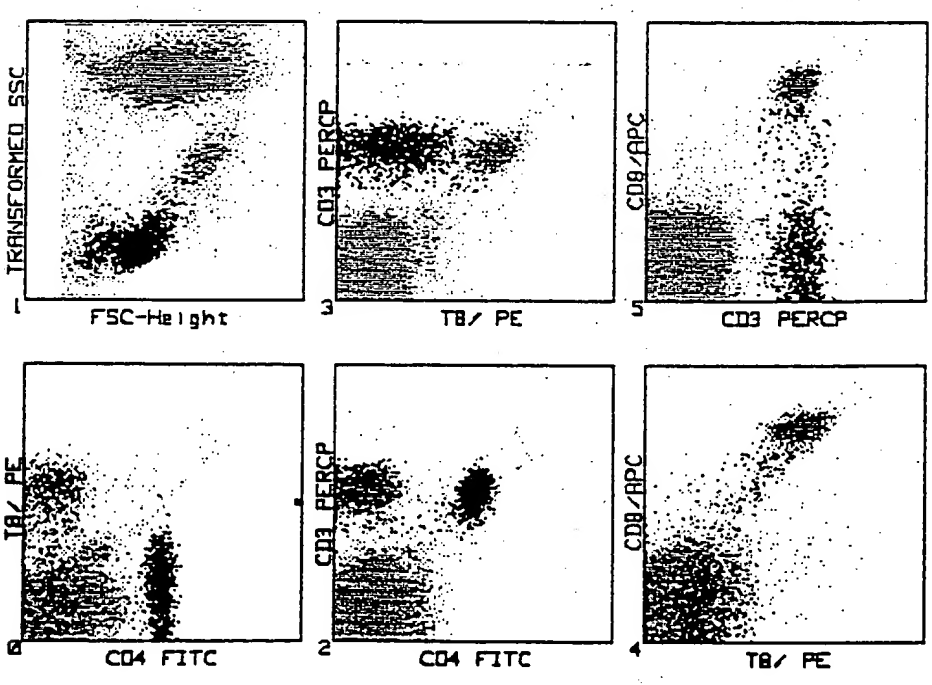
Controls: Unst.
Neg. Control
No 1°, 2nd, + rest Abs

No 1° staining, 2nd, + rest of Abs

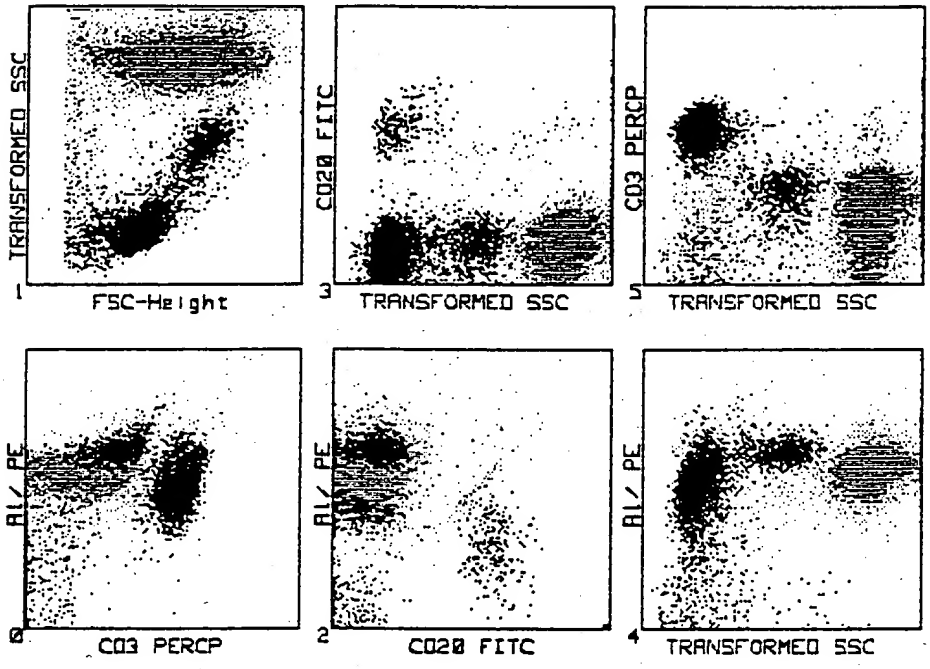
PRINT-A-GATE (TM) Mode ■ File: #15:MN08104007 Dots = 15000
%= 0.9 1.0 6.1 7.1 0.0 0.2 0.0 83.9 250 142
RGYBVCWD gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s IE A ^!



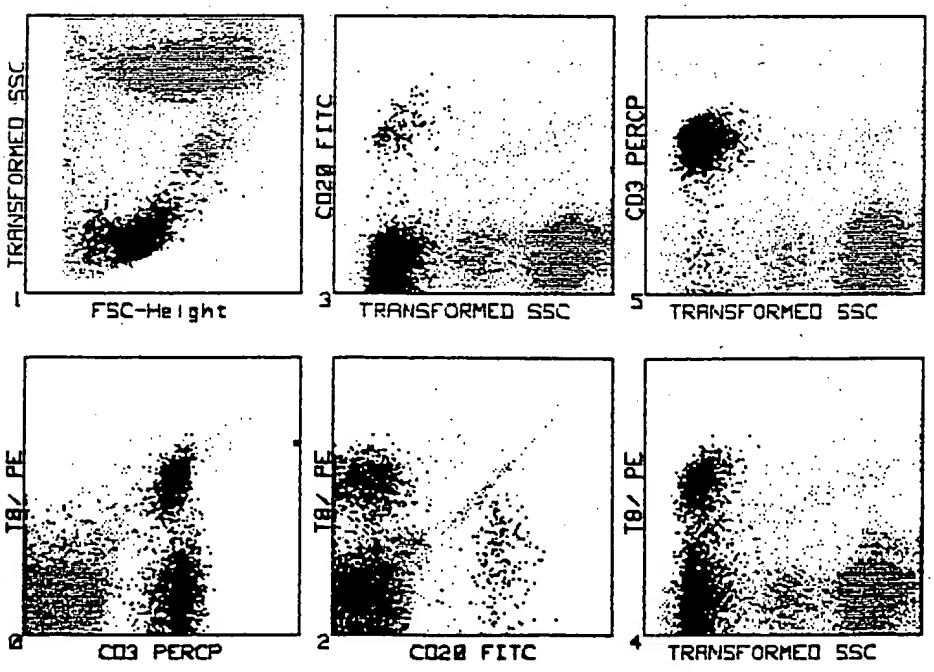
PRINT-A-GATE (TM) Mode ■ File: #15:MN08104007 Dots = 15000
%= 0.9 1.0 6.1 7.1 0.0 0.2 0.0 83.9 250 120
RGYBVCWD gate; +- mode; <> size
0-5 plot; FZHXPMU$'"s IE A ^!



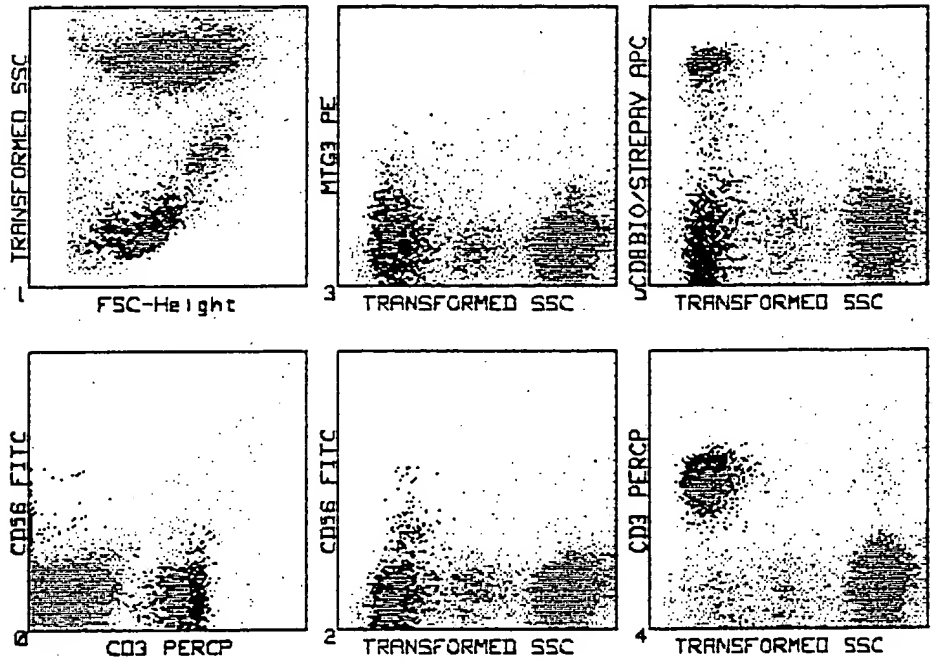
PRINT-A-GATE (TM) Mode ■ File: #15:MN00104005 Dots = 15000
%= 1.0 21.4 67.0 4.0 0.0 0.0 2.0 3.0 250 0
RGYBVCWO gate; +- mode; ◇ size
0-5 plot; F2HXPMU$'"s IE ^!



PRINT-A-GATE (TM) Mode ■ File: #15:MN00104006 Dots = 15000
%= 1.4 11.2 0.0 6.9 0.0 0.0 0.0 80.5 250 176
RGYBVCWO gate; +- mode; ◇ size
0-5 plot; F2HXPMU$'"s IE ^!

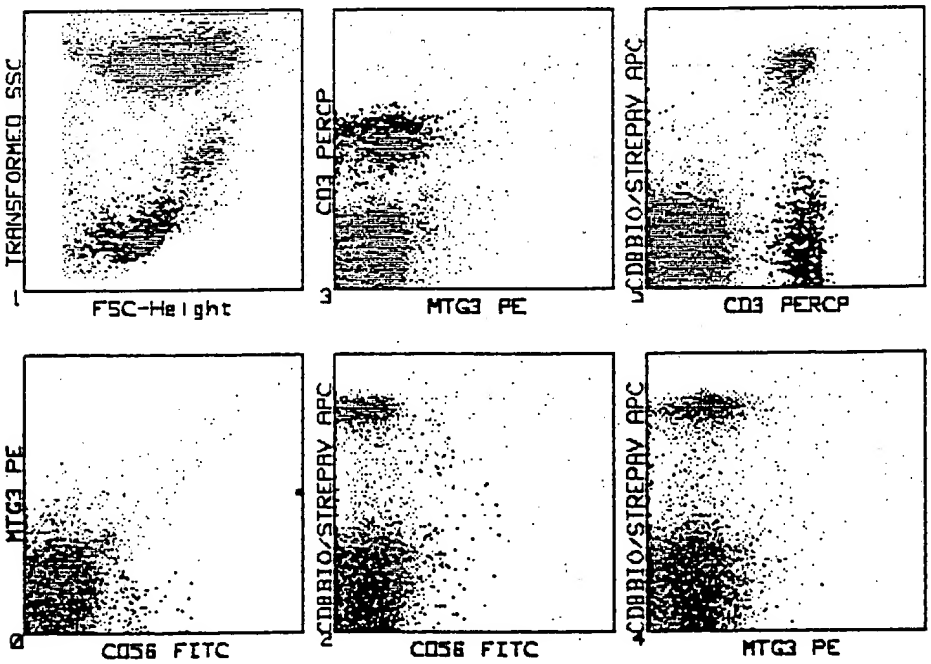


PAINT-A-GATE (TM) Mode ■ File: 15:MN00184004 Dots = 15000
%= 0.6 10.0 7.7 0.0 0.0 0.0 0.0 81.7 0 250
RG!BVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



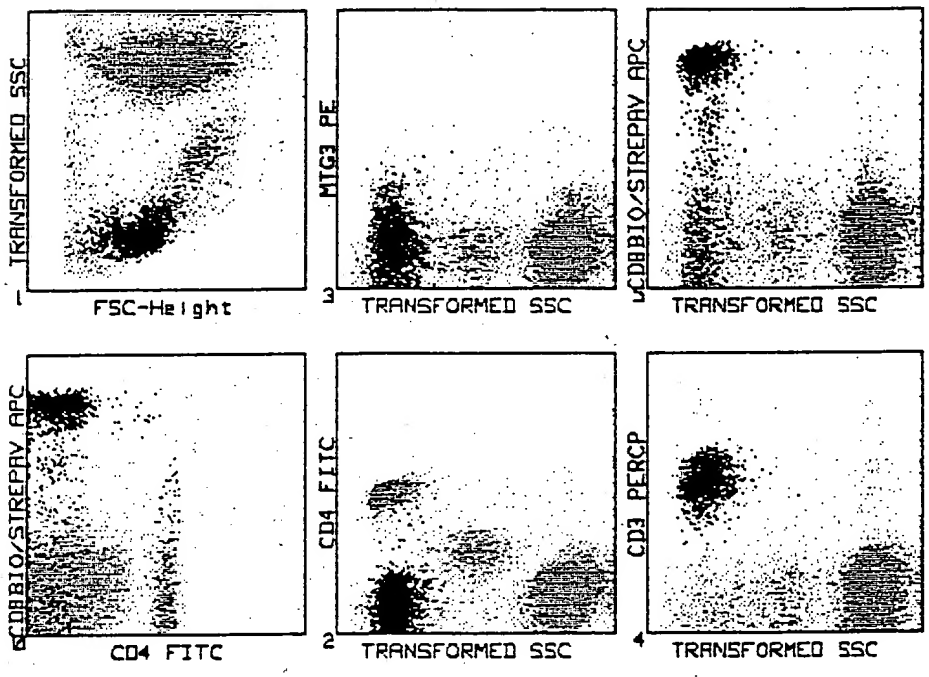
Neg. Ctrl

PAINT-A-GATE (TM) Mode ■ File: #15:MN00184004 Dots = 15000
%= 0.6 10.0 7.7 0.0 0.0 0.0 0.0 81.7 250 120
RG!BVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



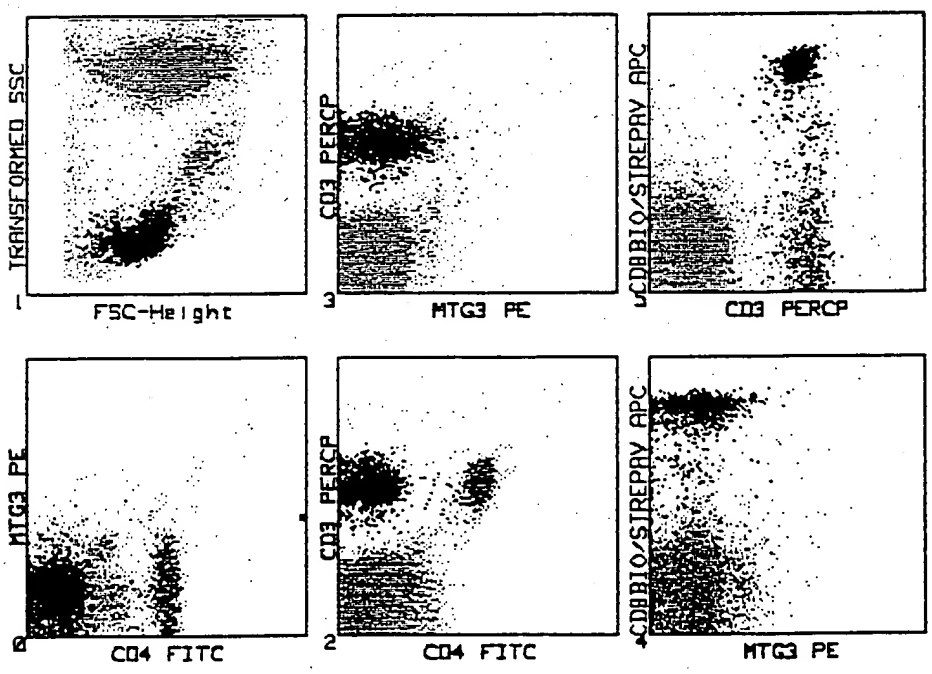
Neg. Ctrl

PAINT-A-GATE (TM) Mode ■ File: #15:MN00104003 Dots = 15000
%= 0.2 2.0 0.6 7.9 0.0 0.0 0.0 81.3 250 0
RG:BYCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



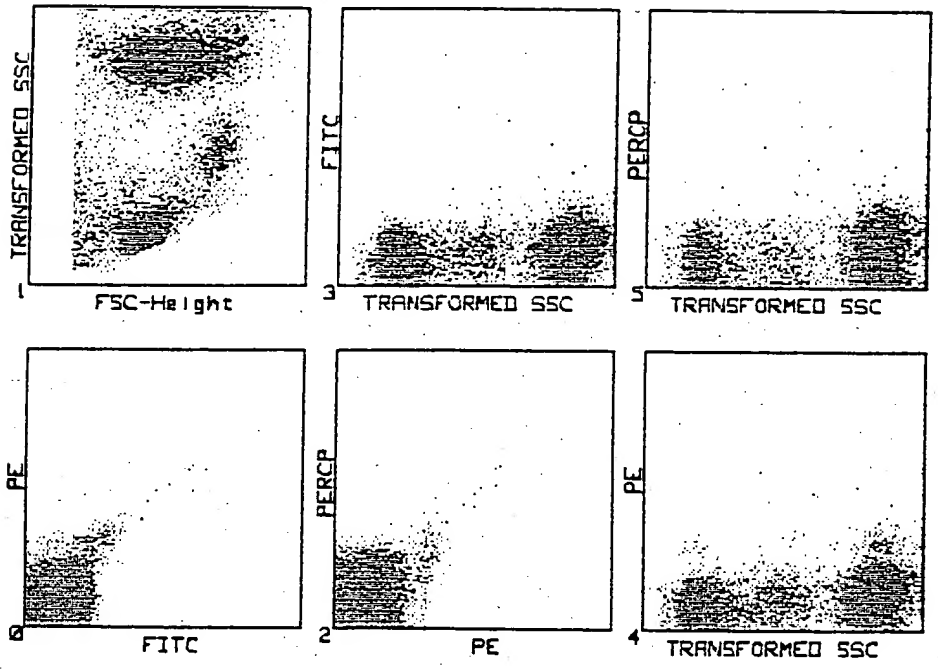
Neg. Contrl.

PAINT-A-GATE (TM) Mode ■ File: #15:MN00104003 Dots = 15000
%= 0.2 2.0 0.6 7.9 0.0 0.0 0.0 81.3 250 100
RG:BYCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



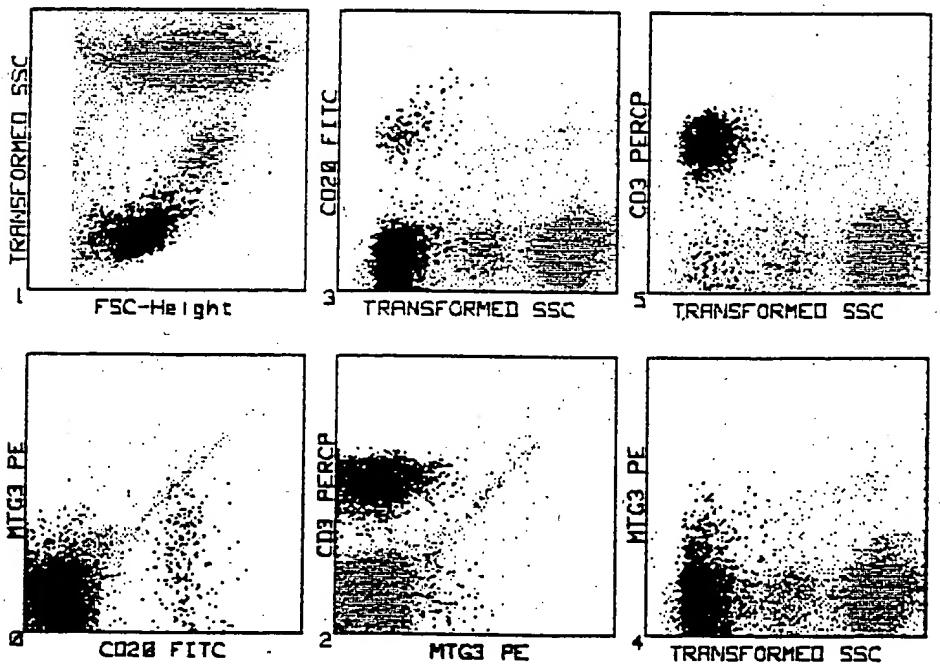
Neg. Contrl

PRINT-A-GATE (TM) Mode ■ File: #15:MN88184001 Dots = 15000
%= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 99.9
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



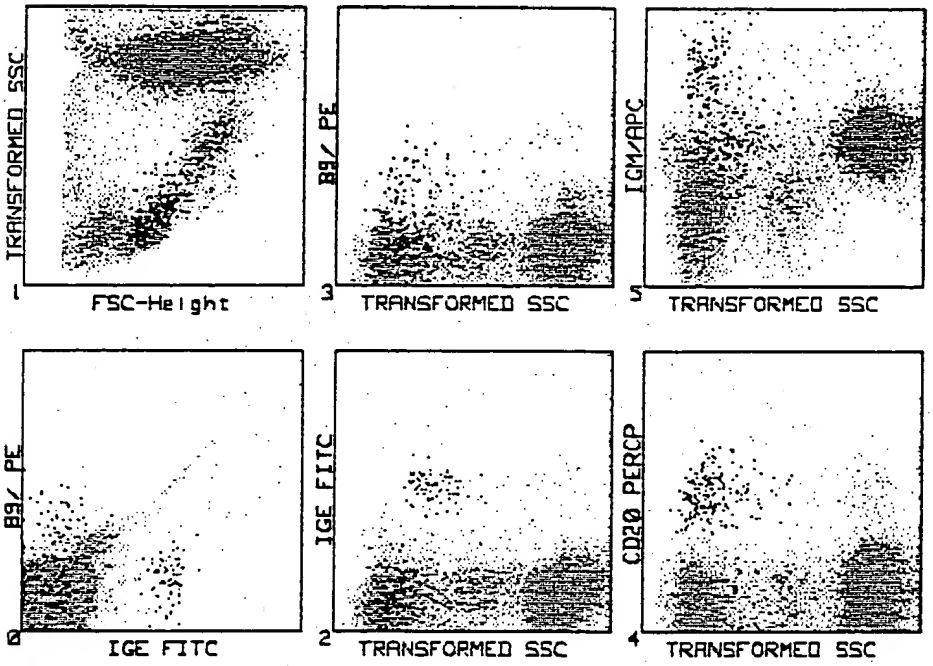
Unst.

PRINT-A-GATE (TM) Mode ■ File: #15:MN88184002 Dots = 15000
%= 1.6 20.3 0.0 0.0 0.0 0.0 0.0 78.1 0 250
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!

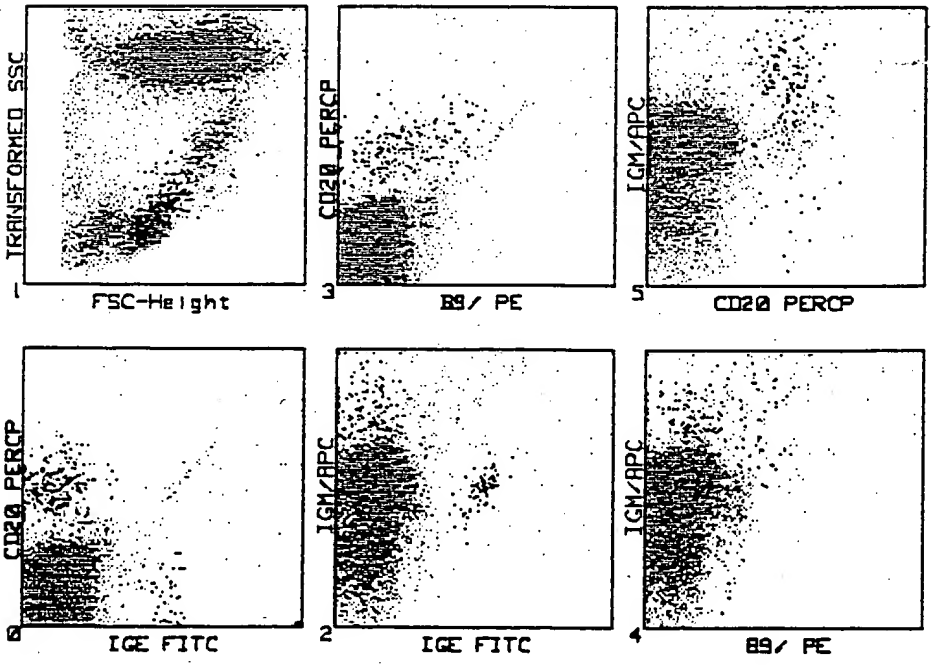


Neg. Contrl.

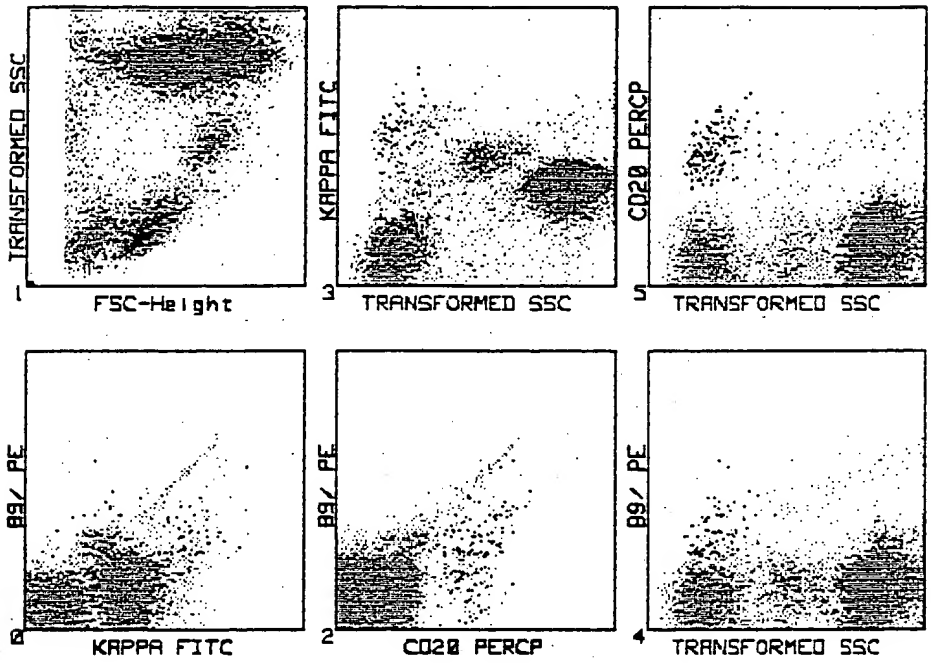
PRINT-A-GATE (TM) Mode ■ File: #15:MN08104813 Dots = 15000
%= 0.5 0.9 0.0 0.4 0.0 0.0 0.0 98.2 0 0
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE A ^!



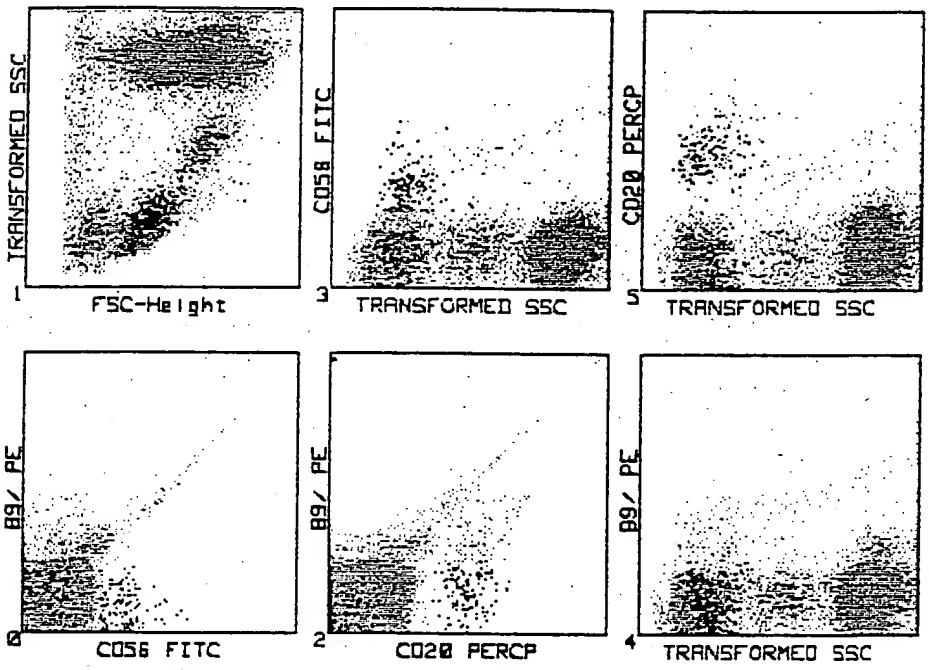
PRINT-A-GATE (TM) Mode ■ File: #15:MN08104813 Dots = 15000
%= 0.5 0.9 0.0 0.4 0.0 0.0 0.0 98.2 258 0
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE A ^!



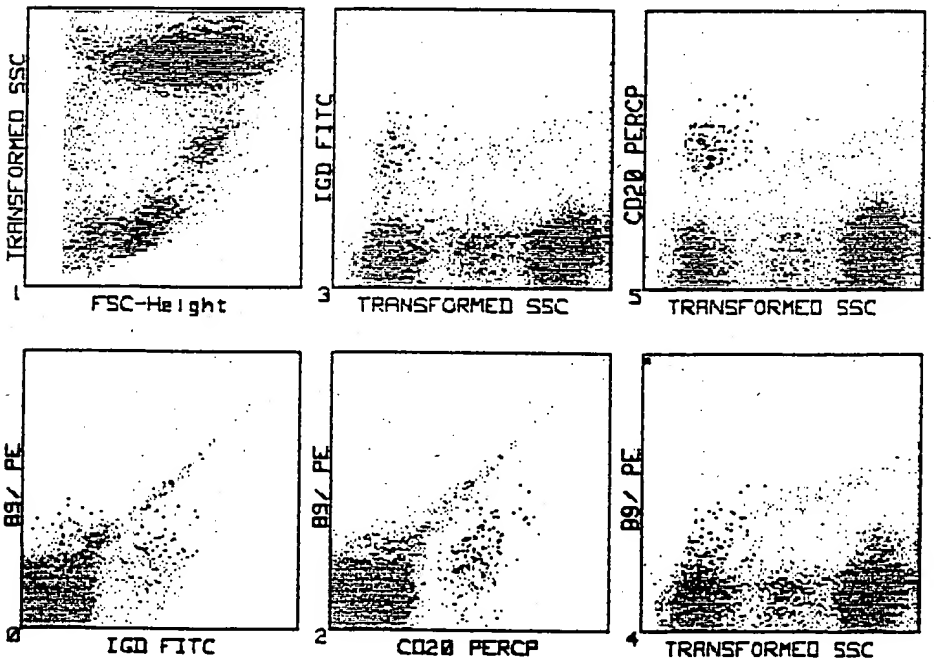
PRINT-A-GATE (TM) Mode ■ File: #15:MN00104015 Dots = 15000
%= 0.3 0.4 0.5 0.2 0.0 0.0 0.0 98.6 0 0
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE A ^! !!



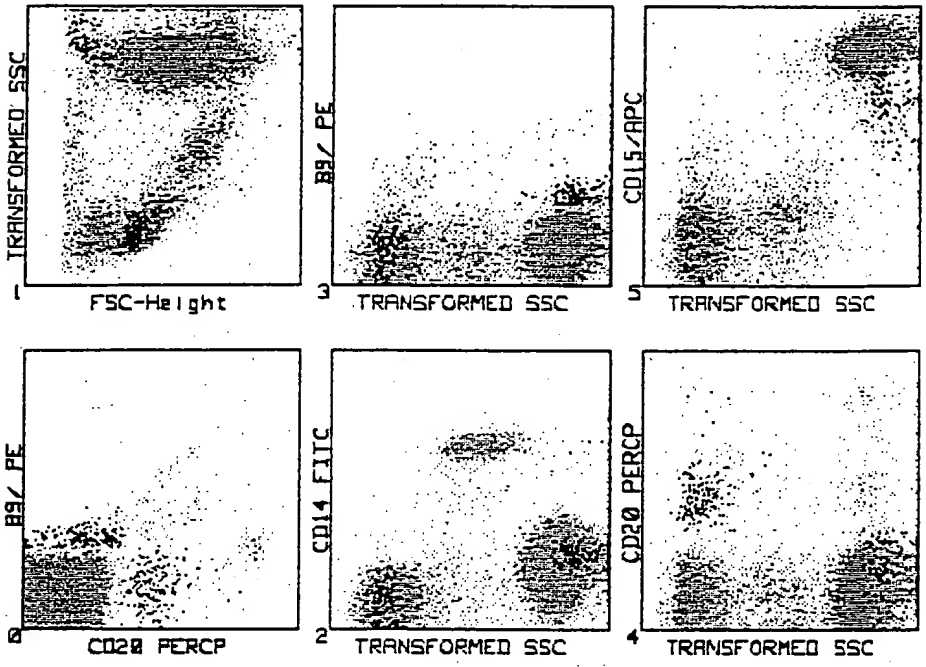
PRINT-A-GATE (TM) Mode ▓ File: #15:MN00104012 Dots = 15000
%= 1.2 0.9 0.7 0.0 0.0 0.0 0.0 97.2 0 250
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



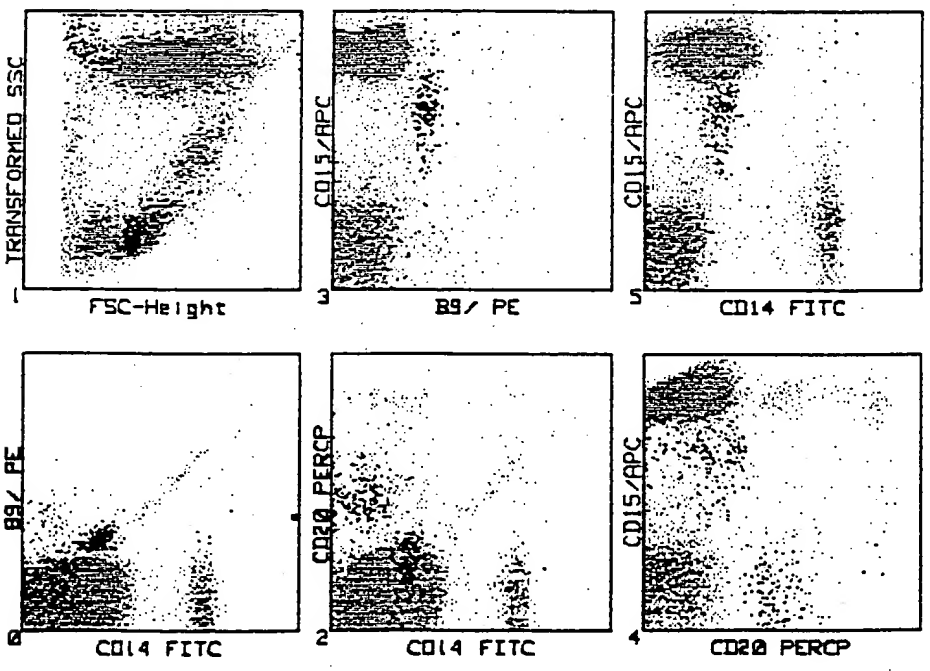
PRINT-A-GATE (TM) Mode ▓ File: #15:MN00104014 Dots = 15000
%= 0.3 0.1 0.0 0.1 0.0 0.0 0.0 98.7 0 250
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^!



PRINT-A-GATE (TM) Mode ▓ File: #15:MN88104811 Dots = 15000
Σ= 1.1 0.0 0.5 1.2 0.0 0.0 0.0 97.2 0 4
RGYBVCWO gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^! !!



PRINT-A-GATE (TM) Mode ▓ File: #15:MN88104811 Dots = 15000
Σ= 1.1 0.0 0.5 1.2 0.0 0.0 0.0 97.2 250 104
RGYBVCWO gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE ^! !!

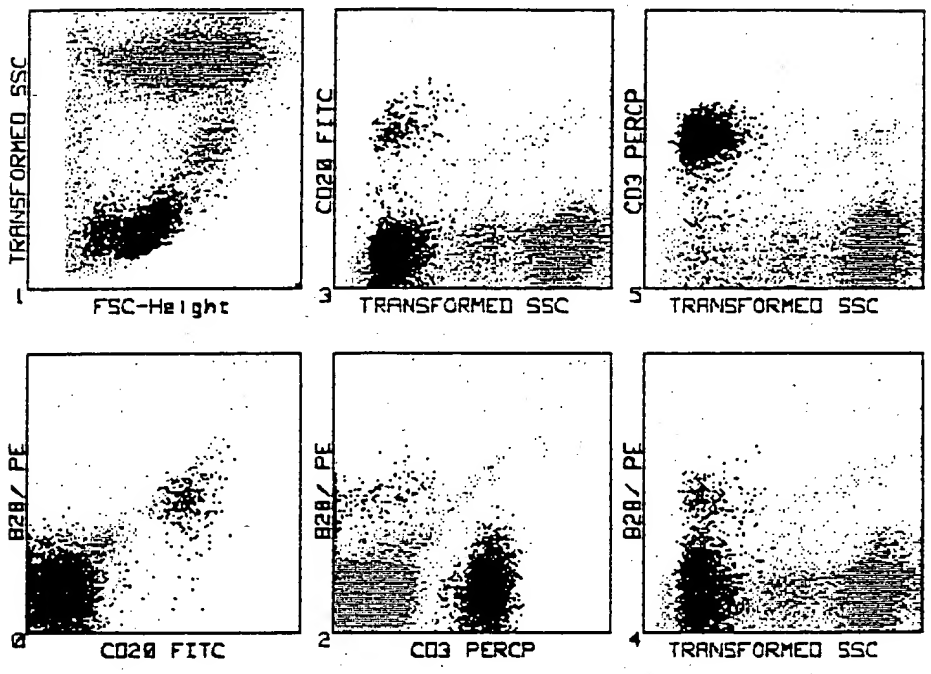


PAINT-A-GATE (TM) Mode ■ File: #15:MN88104009 Dots = 15000

%= 1.6 19.6 0.9 0.1 0.0 0.0 0.0 78.8 250 0

RGYBVCWO gate; +- mode; ◇ size

0-5 plot; FZHXPMU$'"s IE A ^!

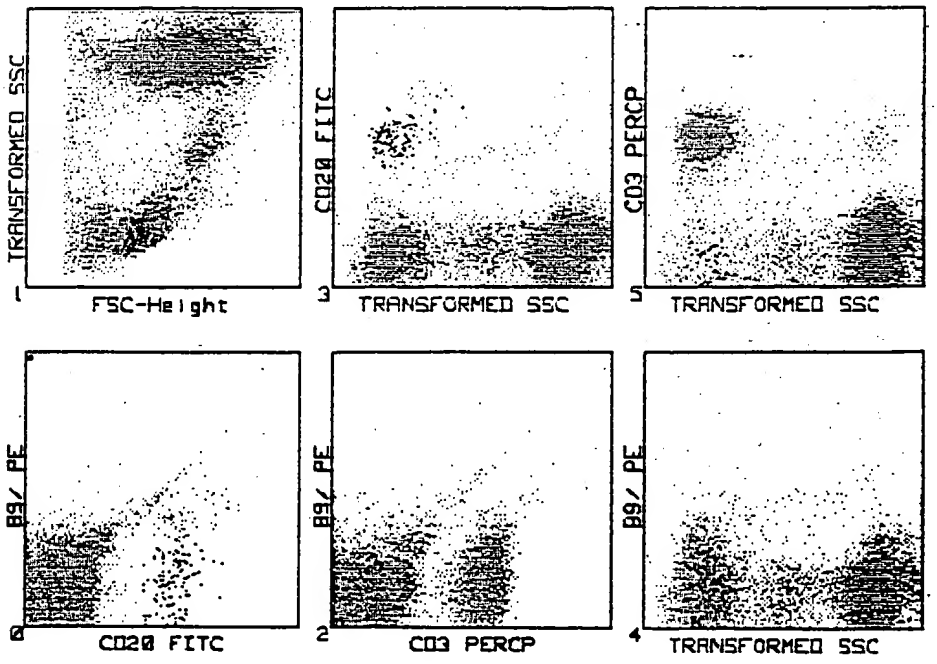


PAINT-A-GATE (TM) Mode ■ File: #15:MN88104010 Dots = 15000

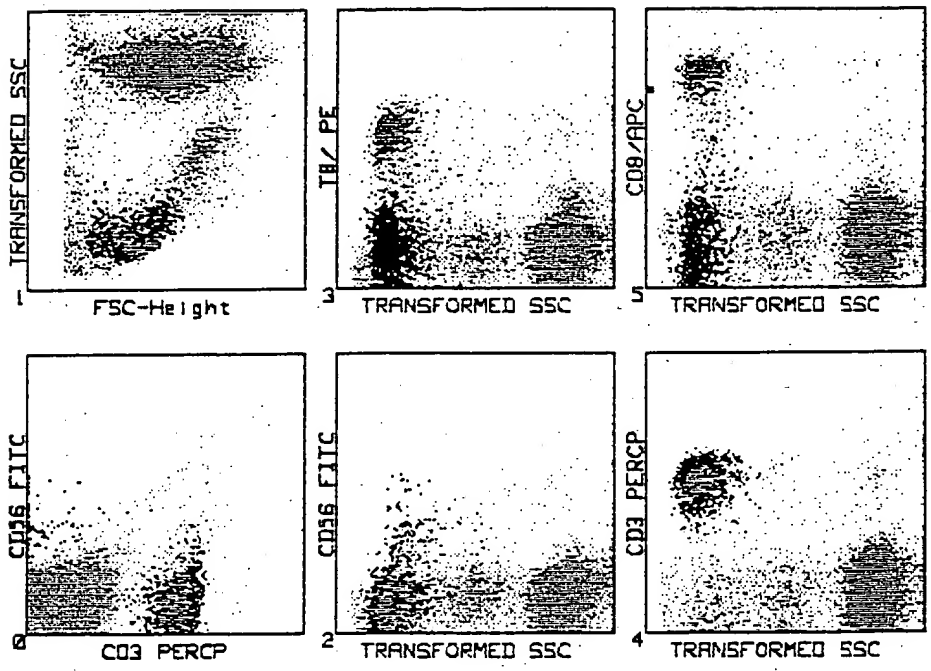
%= 0.9 0.0 0.4 0.0 0.0 0.0 0.0 98.7 0 250

RGYBVCWO gate; +- mode; ◇ size

0-5 plot; FZHXPMU$'"s IE A ^!



PRINT-A-GATE (TM) Mode ■ File: 15:MN08104008 Dots = 15000
%= 0.4 9.0 6.0 0.1 0.0 0.5 0.0 82.4 0 102
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE A ^!



PRINT-A-GATE (TM) Mode ■ File: #15:MN08104008 Dots = 15000
%= 0.4 9.0 6.0 0.1 0.0 0.5 0.0 82.4 250 120
RGYBVCWD gate; +- mode; ◇ size
0-5 plot; FZHXPMU$'"s IE A ^!